

SO REAL



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Screen shots are from various formats and are illustrative of gameplay and not the screen graphics which may vary considerably between formats.





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Product

could take you to the World Cup final. That's the reality of World Cup USA '94 from U.S. Gold.

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thinking and downright

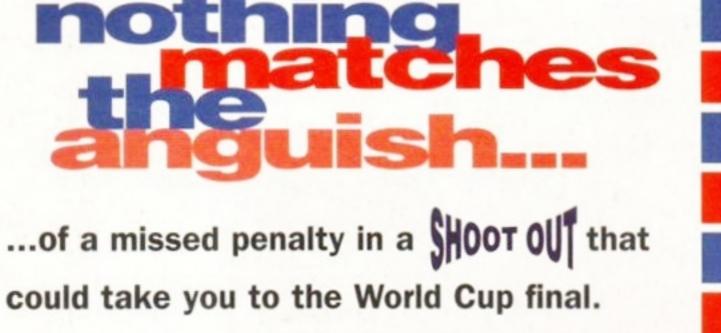
inspired moves of real World Class Football.

So if you want to play real football, put your brain in gear and get U.S. Gold's World Cup USA '94.

...this is a forers.

It's out on June 3rd and it's the only one worth waiting for





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MEGA-CD

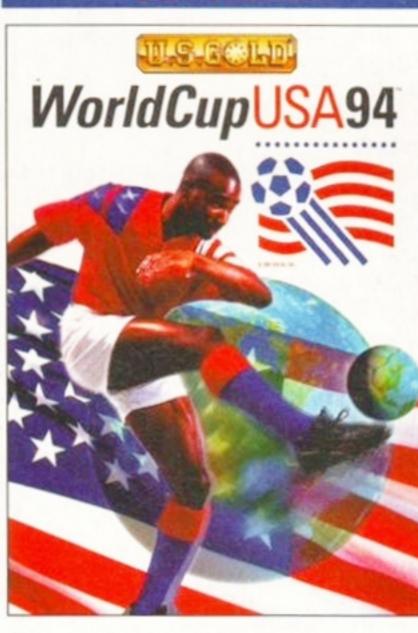
SUPER NINTENDO

GAME BOY

AMIGA

IBM PC

CD-ROM



THIS MONTH IN...

MONTEMUS ISSUE 60

JUNE 1994

MEWS STORIES



Commodore up for sale

The low-down on exactly how Commodore's future stands - who will buy the company and what is going to happen to the Amiga range.

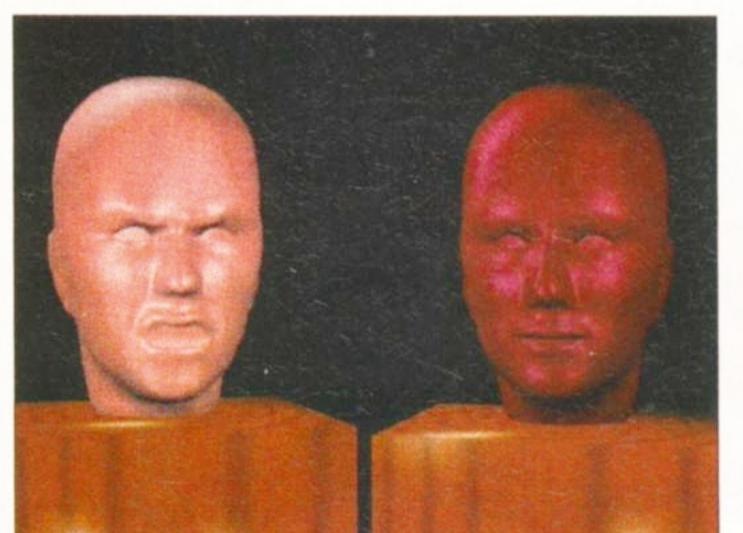
A1200 CD add-on

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| The update to this MIDI sequencer is finally here. We so | und it out. |
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Keep your kids smart with the latest Amiga learning packages.



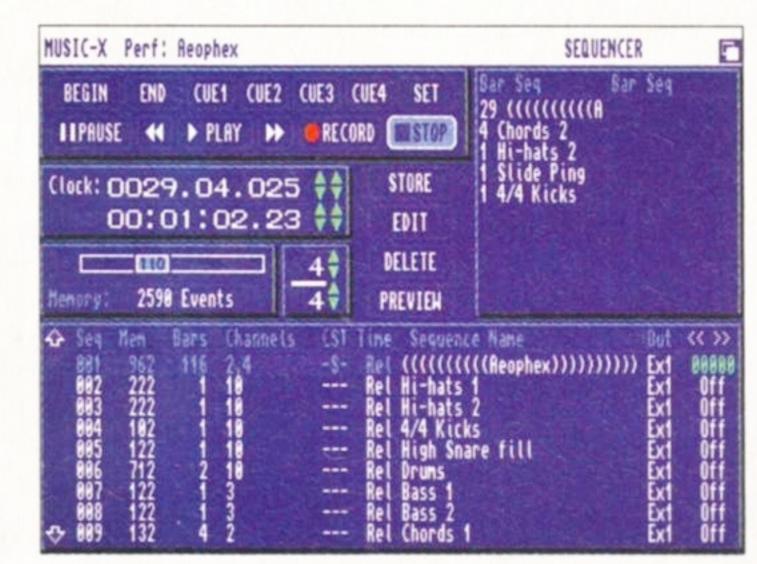
Human models with all the curves and crevices to aid your 3D designs. P116



Hewlett Packard offer two new printers for all your Amiga output. P120

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It's been a long wait, but the new version of Music-X is finally here. P123

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Give your senses a good time with the new demos in the Public Domain. P144

Screenplay



MicroProse's futuristic adventure, UFO: Enemy Unknown takes you to new heights in space. Page 42

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Will Elfmania give all its beat-em-up predecessors a good kicking? Find out on... Page 52

AMCGA Better by design!

You have just made a great choice! The choice to buy and read Amiga Format, the world's foremost magazine for Amiga users. Unlike other Amiga mags, Amiga Format isn't written by mere journalists. It's put together by Amiga addicts, Amiga users, Amiga gamers, total Amiga freaks.

Unlike other Amiga magazines, we're the one Commodore choose to include a special edition of with every A1200 sold. And unlike other Amiga mags, we're the one that the computer industry trusts when deciding what to



keep stock of in their shops. We're sure you'll agree that we're not like other Amiga mags. Read it and enjoy.



Not one for beginners, the Syndicate Missions will keep you killing for months on end. Page 56

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■ Donk! ● Gunship 2000 ● Chuck Rock 2 ● **Beavers • Fire And Ice • Premiere • Frontier -**Elite II • Zool 2 • Ryder Cup • Humans

Re-releases:

Tornado AGA • The Championship Manager Compendium ● Sleepwalker ● Cadaver ● Jimmy White's Snooker ● Sim City ● Lure Of The **Temptress ● MiG-29M Superfulcrum**

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Gamebusters 97 **Helping Hand** 101

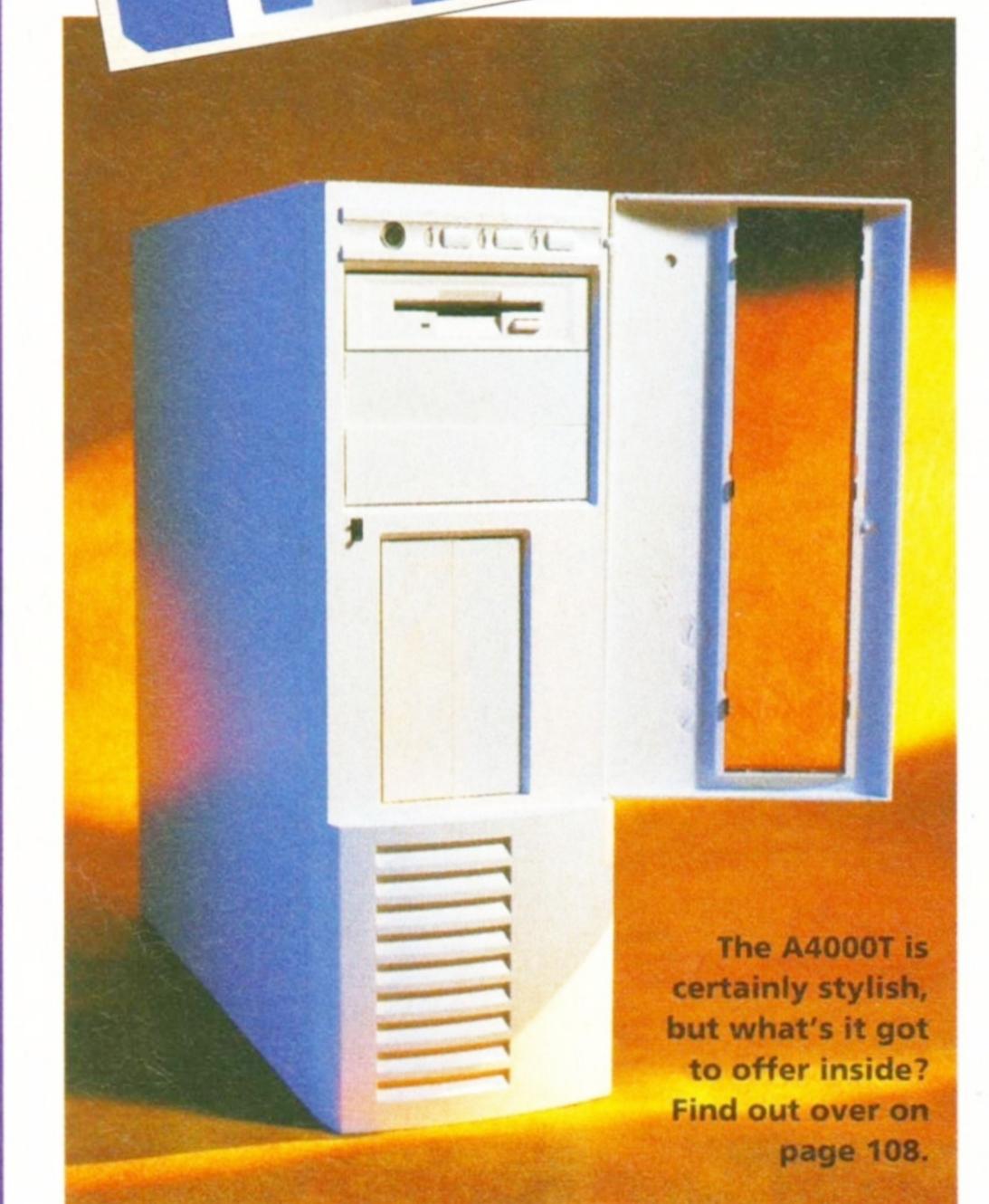


Play the pirate in Traps 'n' Treasures, Krisalis' new swashbuckling platformer. Page 84 Paint packages made easy: whether Deluxe Paint or Personal Paint is your favourite program, you need our introductory guide to the art of the Amiga. We explain the jargon and provide you with the inspiration to become a master of on-screen art!

A4()()()

Page 108

Commodore's latest baby is here, and in size, it's more of a monster. But does bigger mean better? We take a thorough tour of this towering new system.



On this month's G0793615K

SIX PAGES OF COVERDISK INSTRUCTIONS BEGIN ON PAGE PAGE 10

pages to find out how to use your two brand-new utilities. InterSpread is a fully featured spreadsheet which can deal with everything from balancing

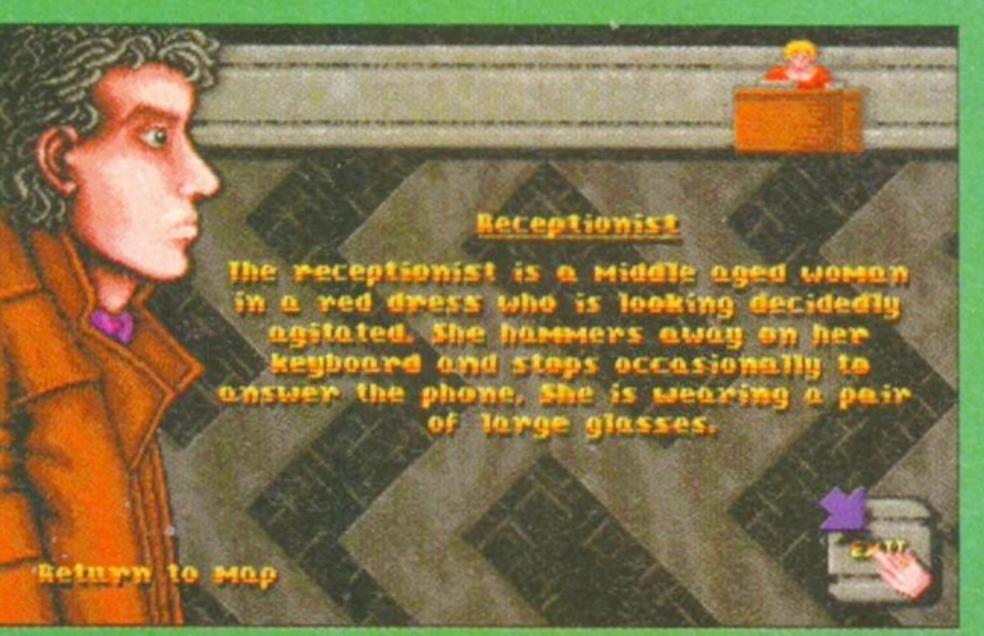
> Then again, if numbers aren't your thing, why not try creating your own demos with this special version of the soon-to-bereleased Demo Maniac

your pocket money to

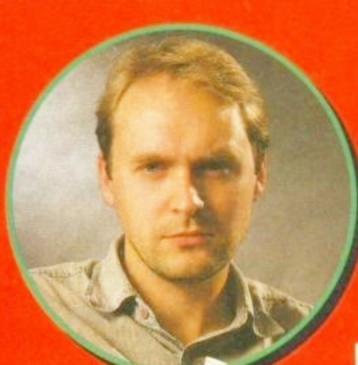
mega-corps.

Check out our detailed Coverdisk

from Black Legend. On the other hand, if you don't fancy being creative at all, what about some mindless violence in DreamWeb -Empire's violent new graphic adventure. After all, it's only a game. Or is it?

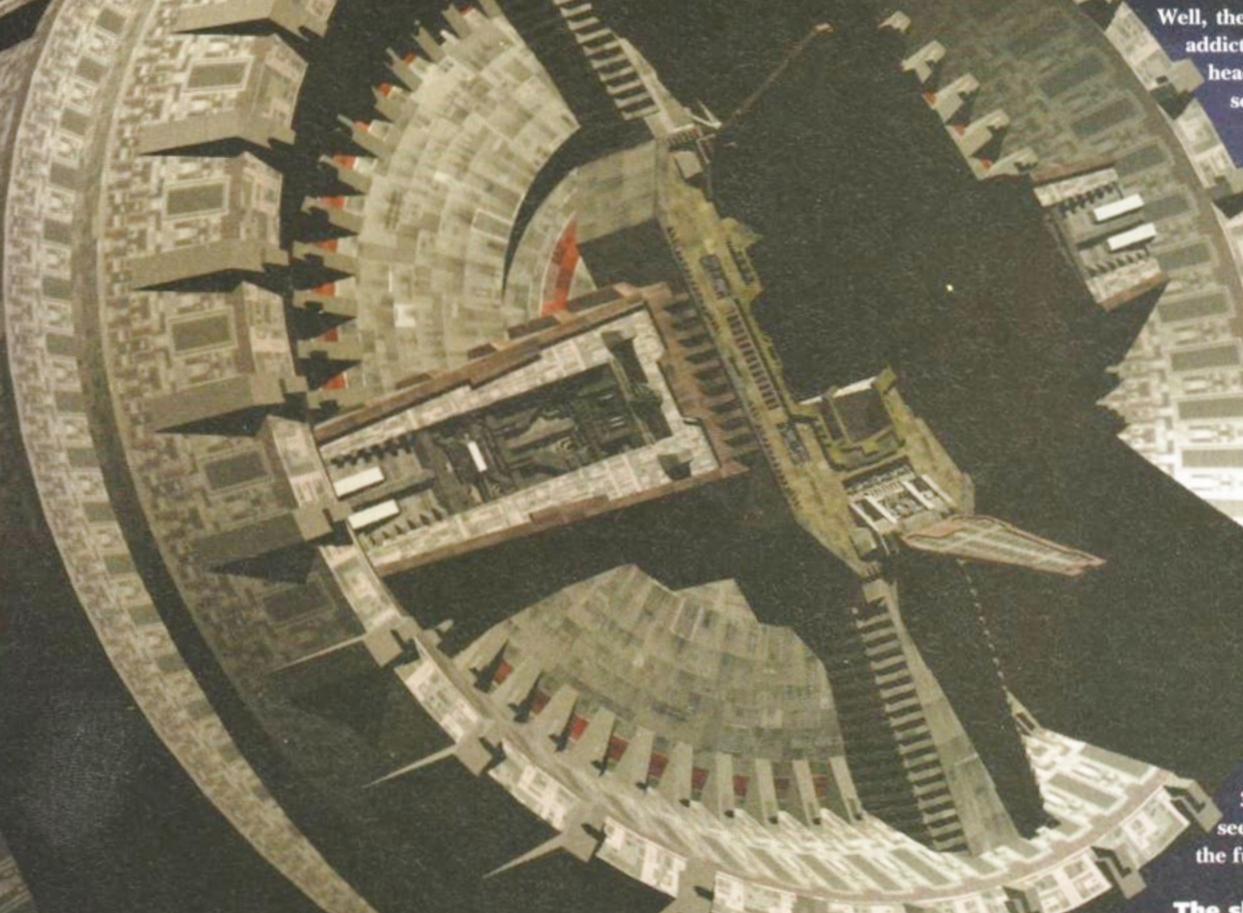


In DreamWeb, Ryan is your name and assassination of



The Month

Ensconced in AF's hot seat, Steve Jarratt reflects on the theory and practice of chaos in his first month as editor of the best Amiga mag...



Babylon 5 is now showing on a small screen near you; Channel 4 have taken the American science fiction programme on board.

mong the many thousands of bits of paper to hit my desk during the course of this month, one of particular interest was the results of Amiga Format's TGI research.

TGI - otherwise known as the Target Group Index - is market research conducted by, unsurprisingly, the British Market Research Board. This is industry standard market research upon which many top newspapers and magazines (Amiga Format included) base their advertising and marketing decisions.

The AF results were pretty astonishing so, at the risk of upsetting the competition, I thought I'd share a few nuggets of information with you...

Most of the data is straightforward, such as the fact that 51.1 per cent of AFs readers are in the age group 15-24; 20 per cent are 25-34 and the remaining 28.9 per cent are 35 and above.

However, you might be interested to hear that a vast 39.7 per cent of you bought at least 10 games or utilities on floppy last year - you guys are active Amiga users!

But the more amazing facts are that, of the target group polled, 706,000 said they read AF in a specific month. 706,000! That's more than Q (660,000), Vox (408,000), GQ (376,000) or Select (a paltry 295,000).

And when the target group was extended to include younger readers in the 11-14 age group, the readership went up to 971,000. Almost one million people said they read, browse or at least glance at Amiga Format every issue.

That's one hell of a big fanzine...

Regular AF readers will be familiar with the stunning images generated by Foundation Imaging for the Warner Brothers' TV show Babylon 5.

Well, there's good news for science fiction addicts (me included) - Babylon 5 is heading for a small screen near you soon. Channel 4 - the last bastion of innovative television programming - has elected to air the series starting on Monday 16 May. So, by the time you read this, you should have had a couple of episodes under your belt.

> Ron Thornton, the man responsible for the special effects, used a network of 20 Newtek Video Toasters plus Screamer add-ons running the Lightwave software. rendering Amiga Format spoke to Ron back in AF52 (there are still some copies available, so hit page 148 if you want one) about Babylon 5 and the Toaster.

The 'star' of the show the five-mile-long Babylon 5 spacestation - contains over 200,000 polygons and takes up 30Mb of hard disk space! So, you've seen the stills, now you can check out the full effects for yourself.

The sheer power of the computer networks was demonstrated to me when an image was downloaded purporting to be of Kurt Cobain, ex-lead singer of Nirvana - and now ex-everything. Somehow, someone had managed to get hold of a photo of the guy just hours after he'd, well, completely blown his face off.

This mono scan is a disturbing and frightening image: difficult to look at; hard to ignore. No newspapers have printed it, yet it is now openly available to millions of people, seemingly without censor or discretion. And, ironically, the privacy he sought to find in death has only made him a greater object of curiosity. .

surrounding rumours Similarly, the Commodore's apparent demise (for the full story, see page 18) reached us first over the wire - mere hours after the holding and development companies had filed for voluntary liquidation.

The dissemination of information is a good thing, but it has its dangers also. Uncontrolled, it can become as chaotic as the weather: a butterfly flaps its wings in the Amazon Jungle and there's a hurricane in the Far East...

No-one can have any secrets any more; the world is just one big global information village. So you'd better be careful what you type on your Amiga keyboard, eh?

Win this and watch your work go down the tube.



4



Write a winning script in the Lloyds Bank Film Challenge and you could see your work broadcast on Channel 4.

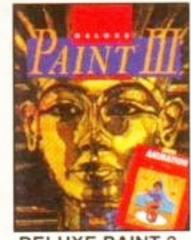
There will be eight winners from three different age groups, ranging from 10 to 25 years old.

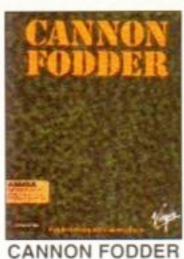
Closing date for entries is 29th July 1994.

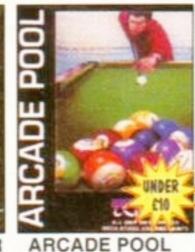
For an entry form, phone 0345 224455 (local call charge), write to PO Box 5I, St Leonard's-on-Sea, TN38 9TX or visit your local Lloyds Bank branch.

Lloyds Bank Film Challenge









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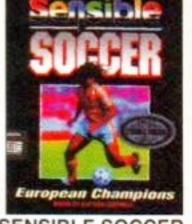
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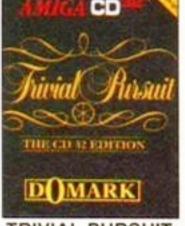


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| | FLASHBACK (1 MEG) FLY HARDER FORMULA 1 GRAND PRIX GENESIA (1 MEG) GOAL GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) GRAHAM GOOCH DATA DISK. GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG) GUNSHIP 2000 (1 MEG) HANNIBAL (1 MEG)* HEIMDALL 2 - BANE OF ASGARD (1 MEG)* HEROQUEST 2 (1 MEG) HIRED GUNS (1 MEG) HISTORYLINE 1914-18 (1 MEG) HOOK IK+ INDIANA JONES ADVENTURE INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) INTERNATIONAL MANAGER - THE WORLD CUP EDITION (1 MEG)* ISHAR 3 (1 MEG)* JAGUAR XJ220 (1 MEG) JAMES POND JET STRIKE JIMMY WHITES SNOOKER (NO12) JINXTER (M'SCROLLS) JOHN MADDEN'S (U.S) FOOTBALL JURASSIC PARK (1 MEG) K240 (UTOPIA 2) (1 MEG) | 13.99 20.99 .8.99 21.99 20.49 14.49 18.49 12.99 .8.99 22.49 16.99 10.99 22.99 .8.99 24.49 |
| | FLASHBACK (1 MEG) FLY HARDER FORMULA 1 GRAND PRIX GENESIA (1 MEG) GOAL GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) GRAHAM GOOCH DATA DISK. GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG) GUNSHIP 2000 (1 MEG) HANNIBAL (1 MEG) * HEIMDALL 2 * BANE OF ASGARD (1 MEG) * HEROQUEST 2 (1 MEG) HIRED GUNS (1 MEG) HISTORYLINE 1914-18 (1 MEG) HOOK IK+ INDIANA JONES ADVENTURE INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) INTERNATIONAL MANAGER * THE WORLD CUP EDITION (1 MEG) * ISHAR 2 * LEGIONS OF CHAOS (1 MEG ISHAR 3 (1 MEG) * JAGUAR XJ220 (1 MEG) JAMES POND JET STRIKE JIMMY WHITES SNOOKER (NO12) JINXTER (M'SCROLLS) JOHN MADDEN'S (U.S) FOOTBALL JURASSIC PARK (1 MEG) K240 (UTOPIA 2) (1 MEG) KGB KINGMAKER (1 MEG) | 13.99 20.99 .8.99 21.99 20.49 14.49 18.49 12.99 .8.99 22.49 16.99 10.99 22.99 .8.99 24.49 |
| | FLASHBACK (1 MEG) FLY HARDER FORMULA 1 GRAND PRIX GENESIA (1 MEG) GOAL GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) GRAHAM GOOCH DATA DISK. GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG) GUNSHIP 2000 (1 MEG) HANNIBAL (1 MEG) * HEIMDALL 2 * BANE OF ASGARD (1 MEG) * HEROQUEST 2 (1 MEG) HIRED GUNS (1 MEG) HISTORYLINE 1914-18 (1 MEG) HOOK IK+ INDIANA JONES ADVENTURE INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) INTERNATIONAL MANAGER * THE WORLD CUP EDITION (1 MEG) * ISHAR 2 * LEGIONS OF CHAOS (1 MEG ISHAR 3 (1 MEG) * JAGUAR XJ220 (1 MEG) JAMES POND JET STRIKE JIMMY WHITES SNOOKER (NO12) JINXTER (M'SCROLLS) JOHN MADDEN'S (U.S) FOOTBALL JURASSIC PARK (1 MEG) K240 (UTOPIA 2) (1 MEG) KGB KINGMAKER (1 MEG) | 13.99 20.99 .8.99 21.99 20.49 14.49 18.49 12.99 .8.99 22.49 16.99 10.99 22.99 .8.99 24.49 |
| | FLASHBACK (1 MEG) FLY HARDER FORMULA 1 GRAND PRIX GENESIA (1 MEG) GOAL GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) GRAHAM GOOCH DATA DISK. GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG) GUNSHIP 2000 (1 MEG) HANNIBAL (1 MEG) * HEIMDALL 2 - BANE OF ASGARD (1 MEG) * HEROQUEST 2 (1 MEG) HIRED GUNS (1 MEG) HISTORYLINE 1914-18 (1 MEG) HOOK IK+ INDIANA JONES ADVENTURE INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) INTERNATIONAL MANAGER - THE WORLD CUP EDITION (1 MEG) * ISHAR 2 - LEGIONS OF CHAOS (1 MEG ISHAR 3 (1 MEG) * JAGUAR XJ220 (1 MEG) JAMES POND JET STRIKE JIMMY WHITES SNOOKER (NO12) JINXTER (M'SCROLLS) JOHN MADDEN'S (U.S) FOOTBALL JURASSIC PARK (1 MEG) KGB KINGMAKER (1 MEG) KINGS QUEST 1 KINGS QUEST 2 (1 MEG) | 13.99 20.99 .8.99 21.99 20.49 14.49 18.49 12.99 .8.99 22.49 16.99 22.49 11.49 24.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 26.99 17.99 11.49 10.49 10.49 11.49 10.49 11.49 10.49 11.49 |
| | FLASHBACK (1 MEG) FLY HARDER FORMULA 1 GRAND PRIX GENESIA (1 MEG) GOAL GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) GRAHAM GOOCH DATA DISK. GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG) GUNSHIP 2000 (1 MEG) HANNIBAL (1 MEG) * HEIMDALL 2 * BANE OF ASGARD (1 MEG) * HEROQUEST 2 (1 MEG) HIRED GUNS (1 MEG) HISTORYLINE 1914-18 (1 MEG) HOOK IK+ INDIANA JONES ADVENTURE INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) INTERNATIONAL MANAGER * THE WORLD CUP EDITION (1 MEG) * ISHAR 2 * LEGIONS OF CHAOS (1 MEG ISHAR 3 (1 MEG) * JAGUAR XJ220 (1 MEG) JAMES POND JET STRIKE JIMMY WHITES SNOOKER (NO12) JINXTER (M'SCROLLS) JOHN MADDEN'S (U.S) FOOTBALL JURASSIC PARK (1 MEG) K240 (UTOPIA 2) (1 MEG) KGB KINGMAKER (1 MEG) | 13.99 20.99 .8.99 21.99 20.49 14.49 18.49 12.99 .8.99 22.49 16.99 22.49 11.49 24.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 24.99 11.49 26.99 17.99 11.49 10.49 10.49 11.49 10.49 11.49 10.49 11.49 |

| LOTUS 3 (1 MEG) (NO12) | 16.99 | THE GREATEST |
|--|---|--|
| MAELSTROM (1 MEG) | .22.99 | (JIMMY WHITES, LURE OF THE TEMPTRESS, DUNE) (1 MEG) |
| MAN UTD PREMIER LEAGUE CHAMPIONS (1 MEG) | 10.00 | |
| CHAMPIONS (1 MEG) | 18.99 | THE LOST TREASURES OF INFOCOM 1 |
| MANCHESTER UNITED | 10.00 | (20 CLASSIC INFOCOM |
| MICRO MACHINES | 10.99 | TEXT ADVENTURES) |
| MICROPROSE 3D GOLF (1 MEG) | 22.99 | THUNDERHAWK |
| MONOPOLY | .18.49 | TITUS THE FOX |
| MORTAL KOMBAT (1 MEG) | 20.49 | TORNADO (1 MEG) |
| MR NUTZ • | .19.49 | TROJAN - ALIEX (LIGHT PHAZER GAME) |
| NICK FALUU S GULF | 14.99 | TURBO TRAX (1 MEG) • |
| NO SECOND PRIZE | | |
| OVEHDHIVE (1 MEG) | 10.99 | UFO - ENEMY UNKNOWN (1 MEG) |
| OVERLORD (1 MEG) | 23.49 | ULTIMA 5 (NO12) |
| PAHASOL STARS | 9.99 | UNIVERSE (1 MÉG) |
| PERIHELION (1 MEG) | .18.49 | URIDIUM 2 (1 MEG) |
| | | VIKINGS - FIELD OF CONQUEST (1 MEG) |
| PINBALL DOUBLE PACK (1 MEG) (PINBALL DREAMS & FANTASIES) | | WALKER WEMBLEY - RUGBY LEAGUE (1 MEG) • 1 |
| (PINBALL DREAMS & FANTASIES) | 21.49 | WEMBLEY - HUGBY DE WAR (1 MEG) * |
| | | |
| PINBALL DREAMS (1 MEG) | 14.00 | WING COMMANDER 1 (1 MEG) |
| POLICE OLIECT | 19.33 | WIZ 'N' LIZ |
| POLICE QUEST 1 POWERMONGER + WW1 DATA DISK (NO12) | 12.49 | |
| POWERNONGER + WWY DATA DISK (NOTZ) | 11.49 | WORLD CUP YEAR 94 |
| PREMIER MANAGER (1 MEG) | 7.00 | (GOAL, CHAMPIONSHIP |
| PREMIER MANAGER 2 (1 MEG) | 7,99 | MANAGER 94 + DATA DISK, STRIKER, |
| PREMIERE (1 MEG) (NO12) | | SENSIBLE SOCCER) (1 MEG) |
| PRINCE OF PERSIA (1 MEG) | 0.99 | WWF WRESTLING 2 (1 MEG) |
| PHOJECT X (SPECIAL ED) (1 MEG) | 10.49 | 700 (1110) |
| marine months of the months | | ZOOL (1 MEG) |
| PROJECT X (SPECIAL ED) (1 MEG) PUGGSY (1 MEG) | .20.49 | ZOOL (1 MEG) |
| PUTTY | 10.99 | ZOOL 2 (1 MEG) |
| PUGGSY (1 MEG) PUTTY RAILROAD TYCOON (1 MEG) (NOP) | 10.99 | ZOOL 2 (1 MEG) AMIGA EDUCATIONAL |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION | 13.49 | AMIGA EDUCATIONAL |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BURBLE BORRLE BAINBOW ISLANDS | .10.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEASE |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BURBLE BORRLE BAINBOW ISLANDS | .10.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEASE |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) | 10.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) | 10.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * | 10.99 13.49 10.99 10.49 18.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH | .10.99 .13.49 .10.99 .10.49 .18.99 .10.49 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH ROBOCOP 3 (NO12) | .10.99 .13.49 .10.99 .10.49 .10.49 .10.49 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) • RINGS OF MEDUSA GOLD (1 MEG) • ROAD RASH ROBOCOP 3 (NO12) RORKE'S DRIFT | .10.99 .13.49 .10.99 .10.49 .10.49 .10.49 .10.49 .6.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 | 10.99 13.49 10.99 10.49 10.49 10.49 6.99 21.49 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B. (1 MEG) * | .10.99 .13.49 .10.99 .10.49 .10.49 .10.49 .6.99 .21.49 .20.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM | 10.99 13.49 10.99 10.49 10.49 10.49 6.99 21.49 20.99 11.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH. ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM SCRABBLE (US GOLD) | 10.99 13.49 10.99 10.49 10.49 10.49 6.99 21.49 20.99 11.99 19.49 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 10 - JUNIOR ESSENTIALS |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH. ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM SCRABBLE (US GOLD) SECOND SAMURAI (1 MEG) (NO12) | 10.99 13.49 10.99 10.49 10.49 10.49 6.99 21.49 20.99 11.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 10 - JUNIOR ESSENTIALS (1 MB, AGES 5-11, BUILDING |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH. ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM SCRABBLE (US GOLD) SECOND SAMURAI (1 MEG) (NO12) SECORT OF MONKEY ISLAND (1 MEG) | 10.99 13.49 10.99 10.49 10.49 10.49 6.99 21.49 20.99 11.99 11.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 16 - JUNIOR ESSENTIALS (1 MB, AGES 5-11, BUILDING FOUNDATIONS FOR MANY AREAS OF |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH. ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM SCRABBLE (US GOLD) SECOND SAMURAI (1 MEG) (NO12) SECRET OF MONKEY ISLAND (1 MEG) SECRET OF MONKEY ISLAND 2 (1 MEG) | 10.99 13.49 10.99 10.49 10.49 10.49 6.99 21.49 20.99 11.99 11.99 24.49 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 16 - JUNIOR ESSENTIALS (1 MB, AGES 5-11, BUILDING FOUNDATIONS FOR MANY AREAS OF THE NATIONAL CURRICULUM) |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM SCRABBLE (US GOLD) SECRET OF MONKEY ISLAND (1 MEG) SECRET OF MONKEY ISLAND (1 MEG) SENSIBLE SOCCER (192/93 SEASON) | 10.99 13.49 10.49 10.49 10.49 10.49 21.49 20.99 11.99 11.99 11.99 24.49 13.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 10 - JUNIOR ESSENTIALS (1 MB, AGES 5-11, BUILDING FOUNDATIONS FOR MANY AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 10 - MATHS NUMBERS |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM SCRABBLE (US GOLD) SECOND SAMURAI (1 MEG) (NO12) SECRET OF MONKEY ISLAND (1 MEG) SENSIBLE SOCCER (192/93 SEASON) SENSIBLE SOCCER - INTERNATIONAL | 10.99 13.49 10.49 10.49 10.49 6.99 21.49 20.99 11.99 11.99 24.49 13.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 10 - JUNIOR ESSENTIALS (1 MB, AGES 5-11, BUILDING FOUNDATIONS FOR MANY AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 10 - MATHS NUMBERS (1 MB, AGES 6-16, COVERS MAJOR |
| PUTTY RAILROAD TYCOON (1 MEG) (NOP) RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS NEW ZEALAND STORY) (NOP) REALMS (1 MEG) * RINGS OF MEDUSA GOLD (1 MEG) * ROAD RASH ROBOCOP 3 (NO12) RORKE'S DRIFT RULES OF ENGAGEMENT 2 S.U.B (1 MEG) * SABRE TEAM SCRABBLE (US GOLD) SECOND SAMURAI (1 MEG) (NO12) SECRET OF MONKEY ISLAND (1 MEG) SENSIBLE SOCCER (92/93 SEASON) SENSIBLE SOCCER - INTERNATIONAL EDITION (1 MEG) * | 10.99 13.49 10.99 10.49 10.49 10.49 21.49 20.99 11.99 11.99 11.99 24.49 13.99 | AMIGA EDUCATIONAL FOR OUR FULL SELECTION PLEAS SEE OUR COLOUR CATALOGUE 10 OUT OF 10 - EARLY ESSENTIALS (1 MB, AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON) 10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 16 - JUNIOR ESSENTIALS (1 MB, AGES 5-11, BUILDING FOUNDATIONS FOR MANY AREAS OF THE NATIONAL CURRICULUM) 10 OUT OF 10 - MATHS NUMBERS (1 MB, AGES 6-16, COVERS MAJOR AREAS OF NATIONAL CURRICULUM) |
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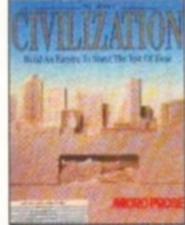
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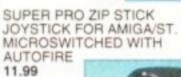
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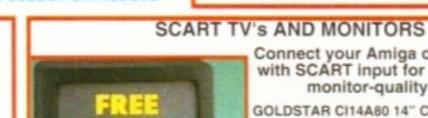


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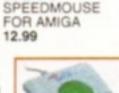
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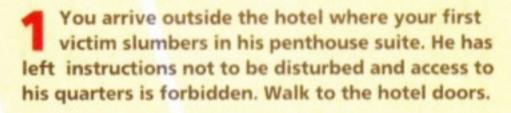
here's a delicate balance between good and evil at the heart of the world. And the key to this balance is a curious entity called the DreamWeb, a subconscious stream of thought visited by people in their dreams. The DreamWeb is controlled by seven nodes, represented by seven earthly people or hosts. These nodes can be randomly good or evil and the actions which the human hosts take have a direct effect on the equilibrium the DreamWeb tries to maintain.



2 Once inside the hotel lobby your first priority is to book a room on the floor directly below your victim's suite. Walk to the receptionist, then talk to her to bring up her dialogue screen.

But now it seems that the powers of evil are getting the upper hand, so the keepers of the DreamWeb have decided to bring in some hired help to sort out their potentially civilisation-threatening situation. You are plunged into this delicately balanced scenario to play Ryan, the professional assassin hired by the DreamWeb's keepers to overcome the forces of evil.

Your objective in the full game, published by Empire Software (081-343 7337), is to track down and kill the DreamWeb's seven human hosts. Our exclusive demo places you on the trail of your first victim – a debauched drug-taking, sex-mad rock star. Your mission is clear. You must trap him in his penthouse lair, overcome the bodyguards and 'remove' him from the DreamWeb. Have you got the nerve to complete this chilling adventure?







A Now access Ryan's inventory by opening the box on his coat. Ryan can store up to 30 items. The first level, indicated by a '1' in the top right corner, contains his clothes (trainers, jeans, shirt) as well as important items like his gun and knife. Click on '2' in the top right corner to access the second level of Ryan's inventory. Here you find a wallet. Take it and open it to get a photo, scrap of paper and a cashcard. Move all the items into the main inventory. Click on Exit to return to the map view.

To the right of the receptionist, next to the VDU, you find a card scanner. Examine it first, then Use it. Ryan's inventory appears again, so select the cashcard, then Use. You're now back in map view and you should notice a yellow keycard emerging from the machine. Examine, then use, the keycard to place it in your inventory.

You're now presented with a description of the receptionist. Left-click on her picture in the top right corner to start a conversation. Keep pressing the left mouse button until she offers you a hotel room for 200 credits. Return to the map screen.





Malk to the lift controls, examine them, then use them. Select and use the keycard from Ryan's inventory when it appears. The lift now climbs to the floor below the penthouse suite. You now have to disable the lift so that no-one discovers what you're up to.



Examine the lift controls again, then use. Ryan's inventory pops up, so select the knife from level one. Use the knife. The panel on the front of the lift controls falls open revealing a green wire.

Repeat the knife-wielding process above to cut the wire. The lift is now disabled. Walk to doorstep to enter hotel corridor.

To the north west of the hotel lobby are doors to the hotel lift. Walk to the lift pad on the right of the lift doors, then examine the lift pad. Use the pad to open the lift doors. Walk to the doorstep and enter the lift.

DOWN AT THE END OF LONELY STREET

Confused? You needn't be. Finding your way around *DreamWeb* is simplicity itself. Here's our guide:

1. LOOK AROUND

Left-click on Ryan's eyes to get a description of your current surroundings. You can also find a pair of sunglasses in Ryan's inventory if you fancy wearing them.

2. STATUS BAR

The status bar gives you general information about your present location and energy levels – indicated by the blue and red vertical lines. The magnifying glass is the Zoom Control which toggles the close-up view in the bottom left corner on and off.

3. THE HAND CURSOR

Unusually for a graphic adventure, *DreamWeb* enables you to examine or use pretty much all the objects on-screen. To do this simply move the cursor over the object you want to examine and click the left mouse button. When you're in Ryan's inventory or in an object's dialogue box, left-clicking the mouse button usually selects or moves and object; right-clicking gives you a description. To leave a particular location in map view move the hand cursor to the exit and when a blue arrow appears (as shown here) press the left-mouse button.

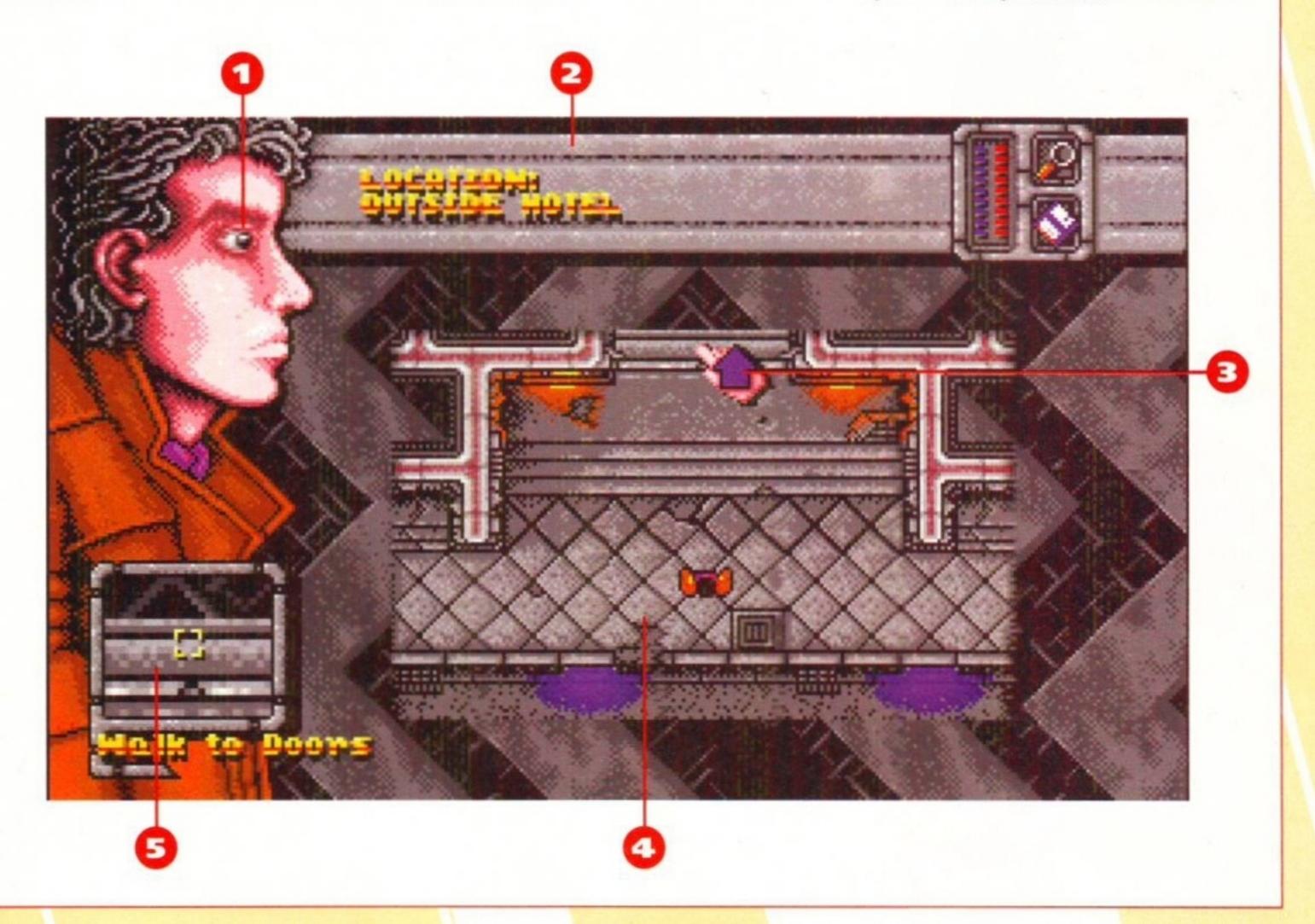
4. MAP VIEW

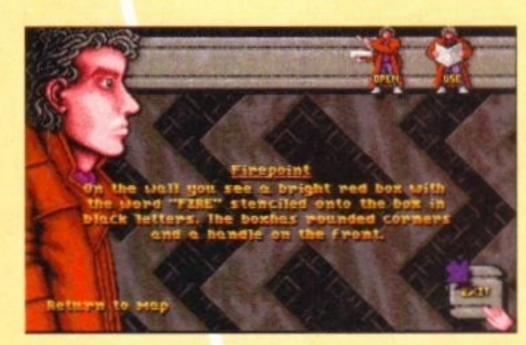
This is where all the action takes place.

DreamWeb's unusual top-down perspective enables you to get a good overall view of all the objects and people in a particular location.

5. ZOOM BOX/INVENTORY

The box superimposed on Ryan's coat has a dual function. When you're wandering around the map screen, it gives a close-up view of the area the hand cursor is over. Underneath the Zoom Box/Inventory is a one-line description of the object immediately underneath the hand cursor.

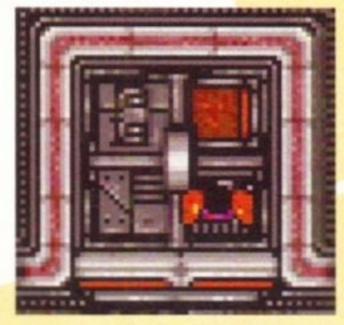




9 Walk left, then down to the firepoint located at the end of the corridor. Examine the firepoint, open the firepoint and take the axe then place it in your inventory. Head up and east along to corridor, then re-enter the lift.



10 At the back of the lift on the right wall is a handle which you should examine. Use the handle to climb out of the hatch and then on to the lift roof.



11 Examine the lift doors. Use them to get your inventory and select the axe. Use the axe to open the doors. You're now in the penthouse suite. There are two bodyguards, one with a gun, the other by the pool. Quickly attack the guy by the pool with the axe, then pull your gun on the second. To discover more you'll need a copy of the full game...



DEMO MANUAC

Richard Baguley shows you how to get the most out of your fantastic Demo Maniac Coverdisk.

BEFORE YOU START

You can't save your demos as a standalone executable file with this demo version of *Demo Maniac* (Black Legend: 0727 868005), although you can save the scripts you create. This means that you can't create a standalone disk with this version of the program.

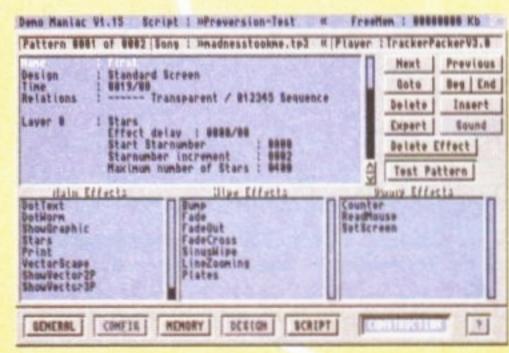
On E's or State Of The Art and wished you could do that? Well if you have, Demo Maniac is for you. Our Coverdisk version enables you to create stunning demos without having to get involved with any of that messy programming business. All you have to do is to be able to use a mouse.

The demos created by *Demo Maniac* are controlled by scripts which play one of a number of patterns. Three examples of the scripts are included on the Coverdisk, and you can learn an awful lot about the program by loading them up and taking a good look at them.

But the best way to learn how *Demo Maniac* works is to build your own demo, and that's exactly what we are going to do.

1 Start *Demo Maniac* by rebooting the machine with the disk in the drive. Click on the Memory button and click on Block 0000. Select Load File to load a data file into memory. This can be a text file, a vector object or an IFF image which can be used by one of the effects.

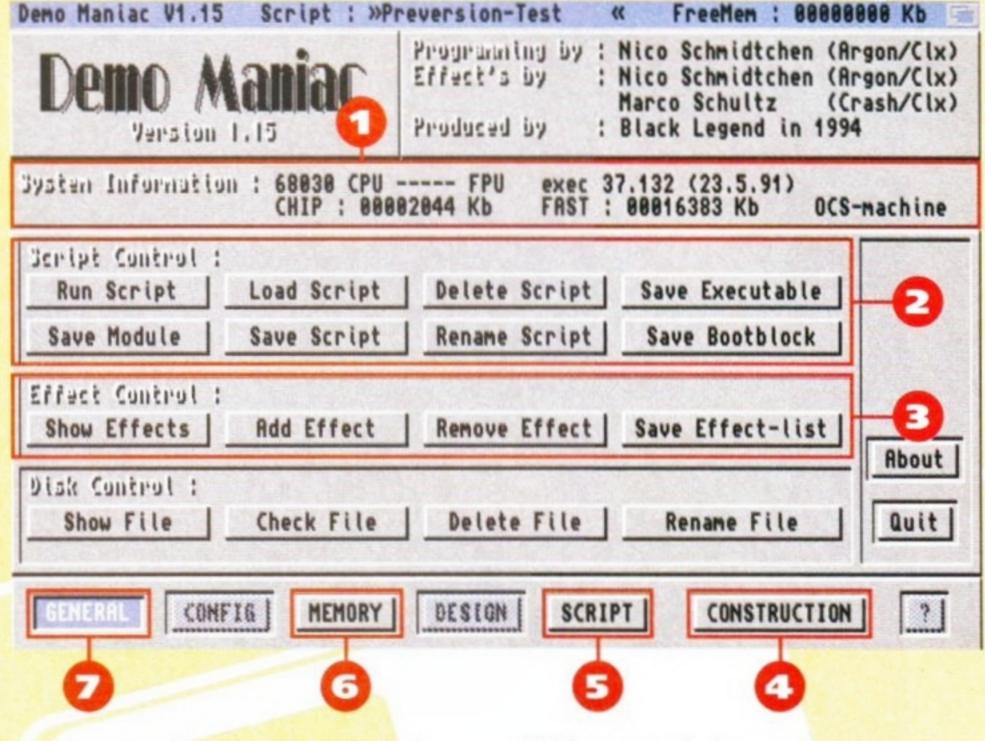
For this demo, we need three files – AF.TXT, DemoManaic.txt and spherel.dat. The first two are in the default directory, the last is in in the Vectorstuff directory. Load each of these by clicking on it in the filelist, clicking on OK and then selecting the next empty block to load a file.



Effects can easily be combined in Demo Maniac, but try not to use too many bitplanes.

HOW TO FIND YOUR WAY AROUND

It's fairly straightforward finding your way around the main Demo Maniac screen, but to make your life even easier, here's what all the buttons do.



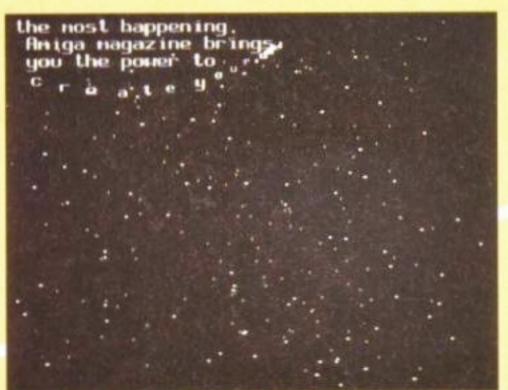
- This section gives you various information about your machine, including how much free memory is available.
- 2 These buttons allow you to load and save scripts, although the Save Executable and Save Bootblock buttons are disabled on the Coverdisk demo version.
- These buttons carry out various commands to do with effects, such as showing you which ones are used in your demo.
- 4 Takes you to the Construction screen, where you can put together all of the effects to form patterns.
- The Script screen is where you put together the patterns to form your demo.
- Takes you to the Memory screen, where you load images and text into memory
- Takes you back to this screen.

2 Now we can start building our example demo. First of all click on the Construction button to take you into the Pattern screen. This is where you can set up the effects, and determine their relationship to each other.

Click where it says Unnamed, and then change the name of the pattern to First. Any self-respecting demo needs groovy music, and to create this click on Player (in the top right corner) and select TrackerPackerV3.0, click on Song and select Madnesstookme.tp3 from the list. We now have a backing track.

To add some effects, click on Layer 0, and select Stars from the list of main effects. This gives us a nice starfield backdrop. Scroll down to Layer 1, click on it and select DotText from the list. This puts the DotText effect into the second layer of the demo. The demo needs to know what text to display, so to enter the text, click on Actual Textpage and select Amiga Format.

3 Click on Test Pattern to see your demo in action. If you have followed all the above stages correctly, you should see the starfield background



Your demo should look like this... Or at least a bit like it.

Perhaps a bit more animated than this.

and the text swooshing on to the screen. Congratulations! You have just created your first pattern. (Looks good doesn't it?)

Let's add something a little more complex. We are now going to add a wipe so we can move on to another pattern. Select Level 3 and add a Sinuswipe from the Wipe Effects menu.

Change the effects delay to 15 and the speed of move to 7. This means that the wipe will not start until 15 seconds after the start of the pattern. Now move to the top of the list of effects and alter the time to 22 seconds, so the pattern will finish after 22 seconds.

5 Click on the Next button to create a new pattern. Call it Second. For this one, let's have a vector object moving around the screen, so select layer 0 and add a ShowVector3P Effect.

Select the Spherel object as the Vector Object. Put the DotText effect in Level 1, but this time use the Demomaniac text instead of the Amiga Format text we used earlier. Set the time for this pattern to infinite.

6 Click on the script button to take you to the script scene. This is where you determine in what sequence the patterns are played. Click where it says 0001 and select the first pattern.

Click on the right arrow below Script Entries and put the second pattern into the second position. If you now click on Test Script, you should see the first effect (the text over the starfield) followed by the second (text over a vector sphere).

You have now created a very basic demo. From this, you can experiment by altering the settings of the effects, adding new effects, or changing the layers. Even with this demo version there are many combinations of effects, all of which are different. Don't be afraid to explore.

• For more details about the full version of *Demo Maniac*, contact Black Legend on 0727 868005.

The Script Screen is where you combine the various patterns to form your demo.

EFFECTING YOUR DEMOS

The effects which are included with this demo version of Demo Maniac are :

DOTTEXT

Scrolls your text on to the screen in a variety of ways. Parameters such as the angle and speed of the scroll can be altered.

SHOWGRAPHIC

Shows any IFF file, although you should be careful to limit the number of bitplanes (the number of colours) the image contains.

STARS

Creates a Star Trek-style starfield backdrop. The speed and number of stars can be varied.

PRINT

Shows a text file in a specified font.

VECTORSCOPE

Flies you around a 3D landscape filled with spheres, cubes and cones

SHOWVECTOR2P

Animates a vector object using two bitplanes (four colours).

SHOW VECTOR3P

Animates in three bitplanes (eight colours).

SHOWVECTOR4P

Animates a vector object using (surprise, surprise) four bitplanes (16 colours).

Also included are the following Wipe effects, which you can use to wipe between the various effects or patterns.

BUMP

Drops the image from the top of the screen with a nice bouncing effect.

FADE

Fades the chosen effect in from black.

FADE OUT

Fades the pattern out over a specified time or number of frames.

FADECROSS

Fades the effect or pattern across the screen. The speed of the fade can be altered.

SINUSWIPE

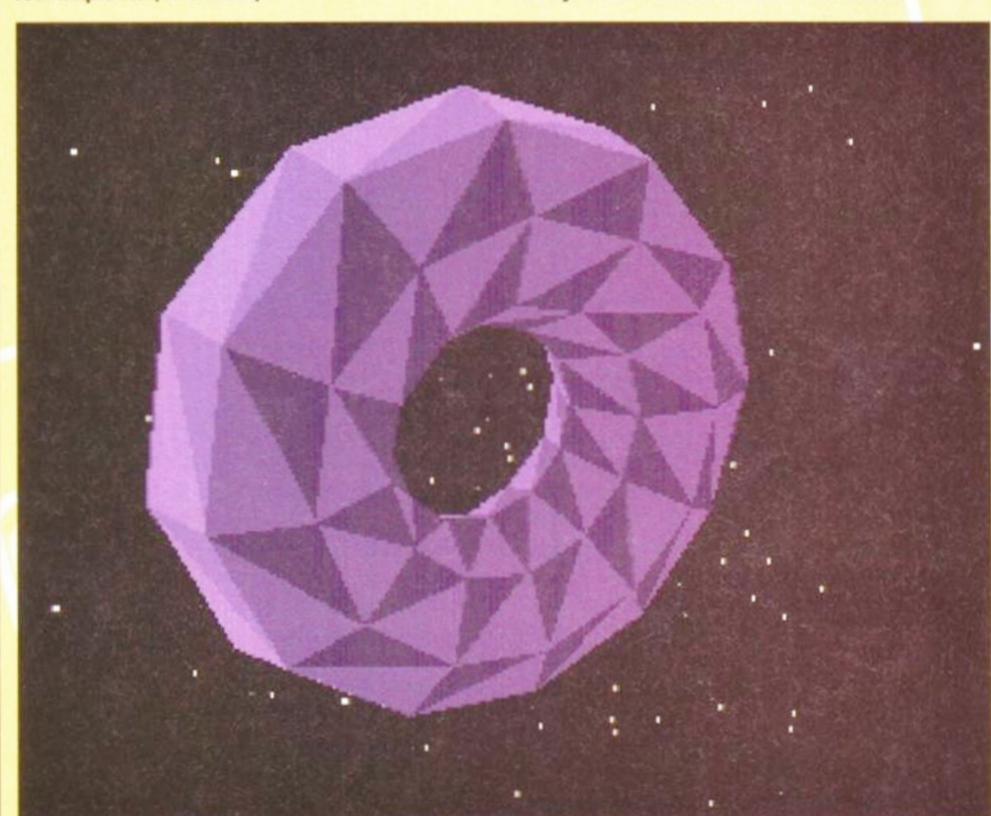
Nothing to do with noses, but will wipe the screen to white with a sine wave effect.

LINEZOOMING

Fills the screen with squares and triangles which expand and then disappear.

PLATES

Blanks the screen with a white plane which gradually fills the screen. The position, speed and delay of the Plates effect can be altered.



Several vector objects are included on the Coverdisk demo, including this colourful Torus.

RUNNING DEMO MANIAC ON AN A500

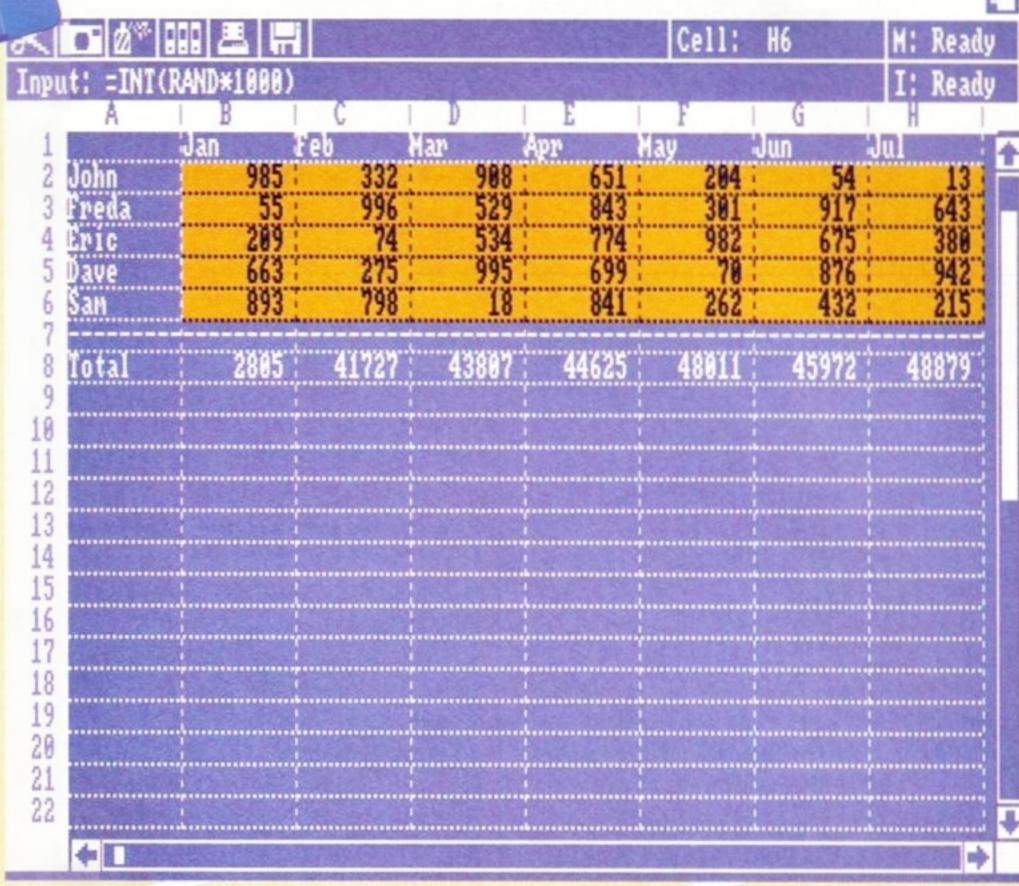
Although Demo Maniac automatically detects what sort of machine you are using, some of the scripts included on the Coverdisk won't run correctly on an A500 or A3000. This is because they try to grab more bitplanes than it is possible to display at once on these machines, which causes the program to hang. To test the scripts to see if they will run on your A500 or A3000, go into the

Construction screen and click on the Test Pattern button. If the effect is OK, it will be displayed on your screen. If there are too many bitplanes, an error message will pop up. If this happens you can reduce the number of bitplanes that each of the effects uses by replacing ShowVector 3P with ShowVector 2P, or delete one of the effects using the Delete Effects button.



MITERSPREAD

Take all the nonsense out of number crunching by getting to grips with the *InterSpread* Coverdisk.



The completed worksheet can be constructed in minutes! The selection here will be fed to the graphics routines.

he *InterSpread* spreadsheet is potentially one of the most powerful applications you can get to work with figures. The only problem is that *InterSpread*, like all spreadsheets, has to be programmed.

This may seem scandalous, but it's what makes them such powerful and flexible tools. *InterSpread* looks basic, but don't be put off by that: beneath the facade it's a very fast and capable spreadsheet that will satisfy some very demanding applications.

There simply isn't the room to give *InterSpread* a full workout here, but if you are a first time user we'll get you started on the road to discovering the wonders of spreadsheets. Experienced spreadsheet users can dive straight in with the abridged Function Reference Table (opposite page, right).

The work area of any spreadsheet is an invisible grid made from columns marked with letters, and rows marked with numbers. The intersection of a single column and row is called a cell and is a pigeon hole for text, numbers, formulae or even macro functions.

The column/row intersection of any cell determines its cell reference given as A1, B6, and so on. In large worksheets, the column prefixes can go into double or even triple characters but it's highly unlikely anyone would ever need to go to such lengths. If you find the idea of an invisible grid difficult to imagine, select I/O->Screen->Grid from the menu and *InterSpread* will make one.

Now try clicking around inside the gridded area. You will see each cell light up as it is selected. The cell reference at the top-right of the screen changes to show where this cell cursor is: it does not have to be visible.

If you hold down the left mouse button over a cell and move the pointer around, your program highlights a rectangular group of cells. This is called a cell range and is one of the most important concepts to grasp early on.

A range is always described in cell references from top left to the bottom righthand corner. Some functions may require this as an argument. A complete row or column can be similarly selected by clicking on the outer title bars.

Now let's enter a simple spreadsheet for some bogus sales people and draw a chart. Move the cell cursor to Al: that's the home cell near the top left of the worksheet. From the menu, select Sheet->RETURN/ENTER->Cell right. That will make entry easier. Now enter the following:

Jan<Return>Feb<Return>Mar<Return>Apr

until you have at least the first seven month names

(three letters apiece) entered in row A.

Select Sheet->RETURN/ENTER->Cell down and move the cell cursor to Al. This already contains Jan, but we need to enter another column of headings here: so select Functions->Insert Column/Row->Insert columns....

InterSpread will prompt you for how many columns to insert, just press Enter to get the default of one. Notice how the horizontal column headings for the months are shifted one place right. Use the cursor down key (or click) to move the cell cursor to A2. Now enter the following names in the cells A2 to A6: John, Freda, Eric, Dave and Sam. In A7 enter \(\) (to fill the cell) and in A8, Sales.

Now let's put in some fictitious values. Spreadsheets use an extended form of calculator mathematics, so the formula we'll use here is:

=INT (RAND*1000)

The equals sign tells *InterSpread* to expect an internal formula or function. Notice how your text entries are automatically contained in quotes.

The INT part of the formula we entered computes the integer value of the function enclosed in parentheses. We could use a cell reference here, but to avoid overcomplicating the issue we'll use a simple calculation instead.

RAND*1000 tells *InterSpread* to return a random value between 0 and 1 and multiply it by 1000. This formula, in effect, returns a random value between 0 and 1000.

The next job is to get that formula into all the cells for the bogus sales people in B2 – H6. You could type the formula again and again and again, but here's a much faster method.

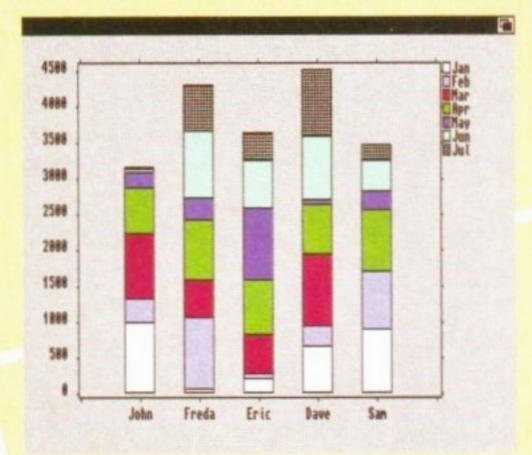
- Enter the formula =INT(RAND*1000) in B2.
 Highlight the area from B2 to B6 by holding the left mouse button and dragging down the pointer.
- 3) Now select Functions->Fill Down and the formula is copied to the remainder of the column.
- 4) Select B2 to H7 and select Functions->Fill Right, and like magic, the formula (plus the dividing line) is copied into the whole range.

Now we'll total the columns. Click in B8. Enter:

=(B2+B3+B4+B5+B6)

It works, but it's a bit laborious, so select the B8 again and click the scissors gadget (top, left) to remove it. *InterSpread* has a function to total an entire column or row in a single go. Enter this:

=SUM(B2:B6)



There, that was painless wasn't it? Simple graphics show just how easy InterSpread is to use.

That's much better – note the colon command is used to separate the two cell references. As a finale, click B8, drag a selection to H8 and select Functions->Fill Right. You've already seen this function in action, but this time click on F8 and look at the formula – it reads:

=SUM(F2:F6)

because *InterSpread* has corrected the cell references for you in one fell swoop. Press F5 a few times and you will see the whole worksheet recalculate with new values being generated by the random function all over the place.

Finally, let's get some graphics.

- 1) Select the area from B2...H6
- Select Chart->Chart type->Stack bar and *InterSpread* creates a graphical representation of the data you've just entered.

It looks very impressive until you realise that

| - 1 | \mathbf{O} | | 300 | 1000 | 200 | D. | 100 | All | - |
|-----|--------------|---|-----|------|-----|----|-----|------|---|
| FUN | | N | 100 | 100 | | A | - | V. 1 | - |
| | | | | | | | | | |

| FUNCTION | VELEVE IACE |
|-------------------------|---------------------------|
| NAME | FUNCTION |
| | The absolute value of X. |
| ACOS(x) | |
| | radians. |
| ASIN(x) | Arc sine of X in radians. |
| ATAN(x) | Arc tangent of X in |
| | radians. |
| AVG(x:y:z:) | Computes the mean |
| | from a list of values. |
| CHOSE(X:a:b:c:) | Returns value point to b |
| | X from a list. Note |
| | spelling. |
| COS(x) | |
| DATE(year:month:day) | Computes the number |
| | of days from a numerica |
| | date. |
| DEG(X) | Converts X radians into |
| | degrees. |
| EXP(X) | Raises e (exponential) to |
| | X. |
| FALSE | |
| FK(principal:rate:time) | Investments Returns the |
| | value of Principal after |
| | invested for Time years |
| | at Rate interest. Note: |
| | 15% =0.15. |
| FRAC(X) | |
| | part of a number. |
| FV(payment:rate:X) | Future value of invest- |
| | ment after X payment |
| | periods. |
| | |

| NAME | FUNCTION |
|--------------------|-----------------------------|
| | Tests a condition and |
| | returns the true or false |
| | value. |
| INT(x) | Rounds down to the |
| | nearest integer. |
| LN(x) | |
| | Decimal logarithm of X |
| | Returns the largest num |
| | ber in the list. |
| MIN(a:b:c:) | Returns the smallest |
| | number in the list. |
| MUL(ref:ref) | Multiplies a rectangular |
| | block of cells |
| N!(x) | Calculates factorial X. |
| Pl | Returns the constant Pi. |
| RAD(X) | Returns X degrees in |
| | radians. |
| RAND | Inserts a random numbe |
| | from 0 to1. |
| REF(sheetname:ref) | Fetches values from |
| | another open sheet. |
| SIN(X) | Sine of X radians. |
| SQR(X) | Square root of X. |
| | Standard deviation from |
| | a list of values. |
| SUM(ref1:ref2) | Totals a group of cells. |
| TAN(X) | Tangent of X radians |
| TRUE | Always returns 1. |
| | Returns statistical vari- |
| | ance of (a:b:c:) from a lis |

the chart labels are all wrong. *InterSpread* does not automatically parse the chart labels from the row and column surrounding the selection. By default, the labels are taken from the top row and extreme lefthand column. Let's correct that:

- 1) Click in the chart screen to make it active.
- 2) Select Main->Specify for the specify request.
- 3) Mid-way down the request is the Legend but-

ton selected as B and the Labels button showing 2. This shows the row and column that the labels and legend are being parsed from. Click on the B and enter A instead; similarly, replace the 2 with a 1.

- 4) Click Accept and you will see that the chart finally makes some sort of sense.
- 5) If you want to show the data with the names on the X-Axis, just bring up the Specify request again and click the Read Horizontal button.

BACKING UP YOUR DISK

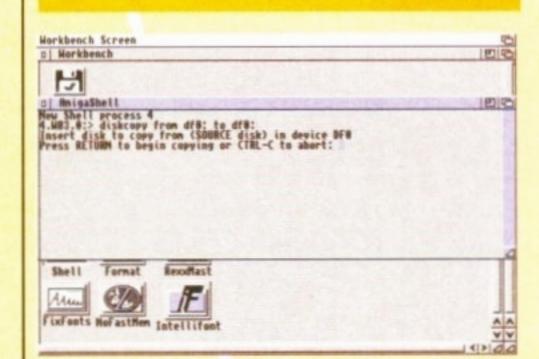
Copying your Coverdisk is simple.

Just follow this easy process...

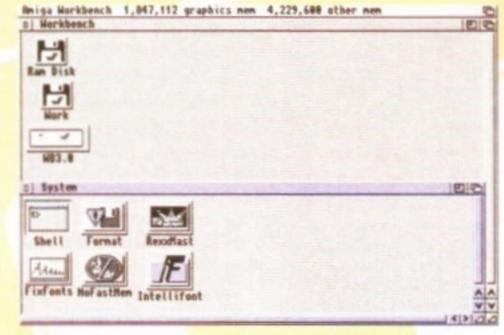
DISK NOT WORKING

We give birth to a truck load of disks every month, so you can imagine a few will turn out bad. Sad, but true. So if you are the unfortunate parent of a problem disk, send it back, including an SAE for a free replacement to:

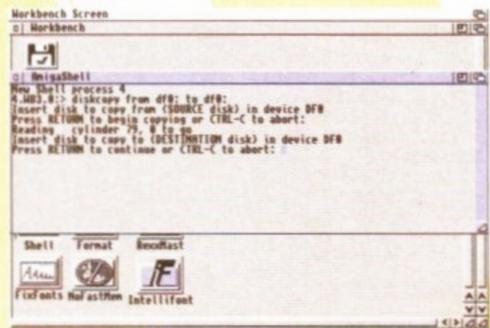
Amiga Format June Disk, Discopy Labs Ltd PO Box 21, Daventry, NN11 5BU



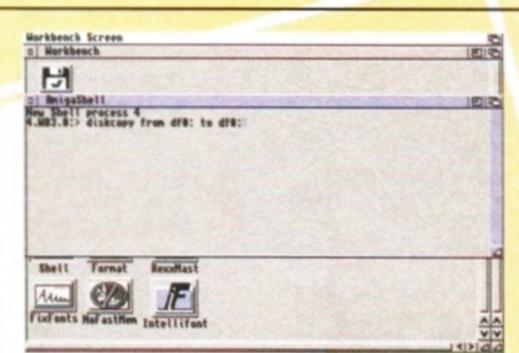
When you are asked for the source disk, insert the Coverdisk and press Return. All of the information on this disk will then be copied from the disk into memory.



Boot up with your Workbench disk, and find the icon called Shell, which should be in your system drawer. Double-click on this to go into the Shell itself.

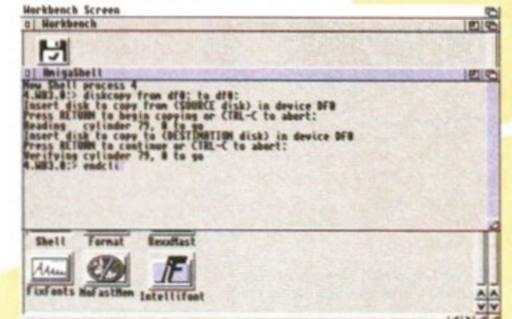


Once it has read the info, it will ask for the destination disk. Insert the disk you want to copy to and press Return. All information on this disk will be destroyed.



2 Type in the following line exactly as it appears here, taking care to put the spaces in the correct places:

DISKCOPY FROM DF0: TO DF0:



5 On an unexpanded machine, the Amiga may ask for the source disk again, as it copies in chunks. Finally, type Endcli to close down the Shell. Your copy is complete.



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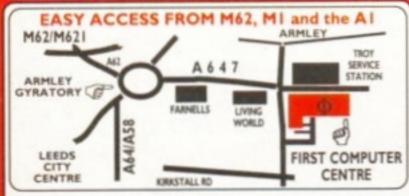
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From the AI take the turnoff for the A64. This merges with the A58 (by-passing Leeds town centre) which meets the Armley gyratory. After "Living World" at traffic lights take a right, left, left again, & 2nd left to get to FCC.

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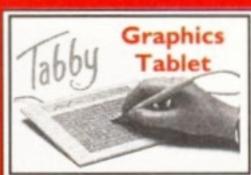
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- Commodore US goes into voluntary liquidation
- The Philippines plant stops manufacturing
- Major investor said to be 'extremely interested'

Steve Jarratt explains the recent events which have every Amiga owner wondering: 'What is going to happen to my machine?'

4.00 in the afternoon (US time) Commodore International Ltd (holding company, CIL) and Commodore Electronic Ltd (development company, CEL) both filed for voluntary liquidation with the court in the Bahamas. CEL – which CIL has shares in – was discontinued and the production facility in the Philippines ceased manufacturing Commodore hardware.

CHAPTER AND VERSE

Hours later, Bulletin Boards and phone lines were busy adding grist to the rumour mill – apocryphal stories suggested Commodore US had ceased trading; Commodore had gone bust; Commodore are being bought (by all manner of different companies); Commodore have filed for Chapter 11 bankruptcy; and so on. However, the full story is surprisingly positive.

Colin Proudfoot - joint MD of Commodore UK - explained exactly what Commodore have been up to across The Pond...

"it's liquidation proceedings in the Bahamian court. There have been a lot of discussions going on at a corporate level with potential investors in the company. We've been saying for some considerable time that we have a cash-flow problem and that we require external investment for the business to continue in a viable nature."

Commodore's operations in Europe are trading well at the moment, and demand for product remains strong. The problem is that the parent company has effectively run out of cash, which restricts product supply – Commodore monitors for instance, have been an endangered species for some time.

So, the truth is that while the Commodore name and Amiga brand are still strong, the company are in negative equity – they owe more than the sum of their assets. And, after months of rumour and conjec-



With the imminent acquisition

With the imminent acquisition by another company, could this be the the last we'll ever see of the familiar Commodore logo – or will it live on under the auspices of another owner?

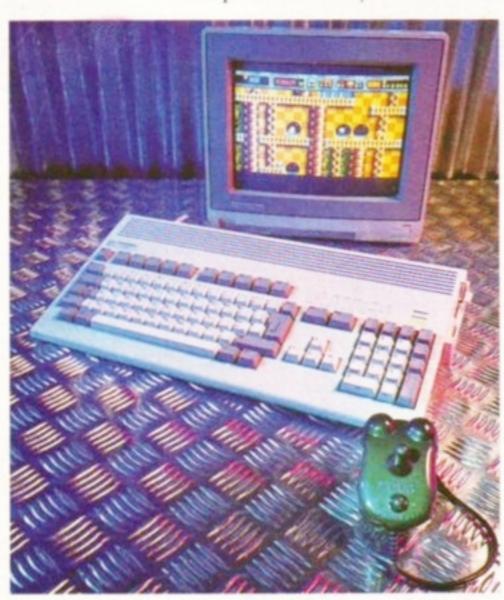
ture, Commodore are about to bought out by another company.

"We've narrowed the field," says Proudfoot, "and there's one particular investor who is extremely interested and who is going through the process of due diligence." This means that the buyer is evaluating what the company is worth and examining the various sections of the company before putting in a bid.

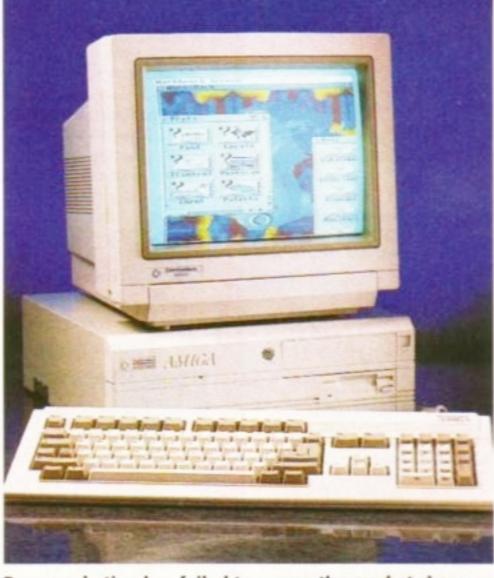
AMIGA LIVES ON

"It is my understanding that the investor is interested in the operating units very much as they are at the moment, for a route to market for "So, they're looking at each individual operating unit in terms of what the market potential is, what the business can do, evaluation of personnel, and so on."

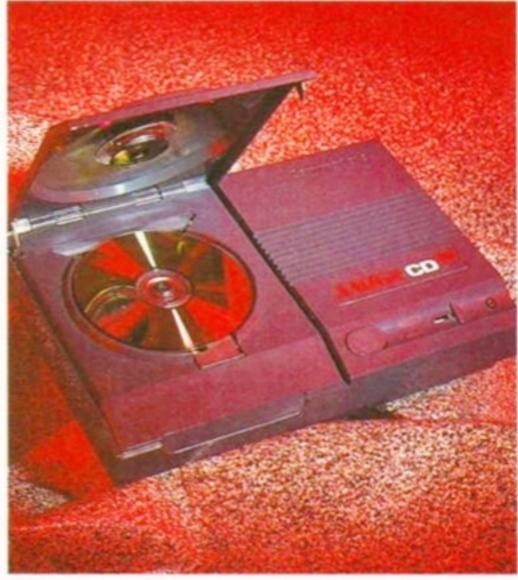
This explains the voluntary liquidation: CEL and CIL are now under the jurisdiction of the Bahamian court and are protected against legal action by any of their creditors. This gives Commodore some muchneeded stability during the few weeks that the negotiations will take, and allows operating units such as Commodore UK to continue as normal until the deal is finalised.



The Amiga has been Commodore's mainstay for the last few years – but its market is under constant attack.



Poor marketing has failed to secure the market share that the high-end Amigas so richly deserve.



CD32: reasonably strong in Europe but has failed to cause the merest of ripples in America or the Far East.

MODORE up for sale

"There should be no impact in the UK marketplace... The brand is too strong to die: we're confident that Commodore and the Amiga will come out of this a better, stronger company "



Colin Proudfoot, joint MD of Commodore UK.

"If we had carried on as normal," says Proudfoot, "all it would have taken is for one creditor to get wind of a possible purchase. They would then assume a large sum of money is about to be injected and could decide that they will just make sure they get what they are owed by being the first to file a lawsuit. Others would undoubtedly do the same and suddenly Commodore isn't an attractive proposition any more."

CORPORATE TACTICS

However, these corporate comings and goings will have almost no effect at all on UK Amiga owners. "There should be no impact whatsoever in the UK marketplace," states Proudfoot. "And as far as we're concerned it means that we're getting closer to the resolution of a difficult financial situation that Commodore has been in for some time."

But just why have Commodore been reduced to adopting such tactics? Where, in short, has all of the money gone? Proudfoot explains that there are a number of factors which are responsible for the company's financial difficulties.

"The European market is comparatively buoyant, but the whole games sector has crashed," he says. "The German economy is in major recession and consumer spending is way down. We're seeing our share of that market increasing, and we're doing relatively better than our competitors.

"But we were hit largely with the C64: it has been a very successful product for Commodore for a number of years, but those revenues died. The PC business was a very big drain on our resources and the decision to get out of that area left a big hole."

So the possibility of a takeover is far from bad news for Amiga owners. It will provide a huge cash injection, enabling Commodore to carry on pushing and expanding the Amiga line long into the next decade, and providing even more support for their loyal userbase.

DIE HARD

Colin has the final word: "I regard this as a positive move because it means we're resolving the situation and what's important is to maintain confidence in the Amiga and in Commodore in the marketplace, which is why we're continuing to trade, and why we're asking people to support us.

"The brand is too strong to die: we're confident that Commodore and the Amiga will come out of this a better, stronger company."

BUT TO WHO?

Of course, the big question on everybody's lips is 'who?'. Which company wants Commodore – and the Amiga technology – for itself?

There have been plenty of suggestions on the Bulletin Boards, including Amstrad, Philips, Hewlett Packard, Sony, Samsung, Nintendo and even Atari boss Jack Tramiel!

Amstrad and Jack T are rank outsiders, and don't really stand a chance given the competition.

Philips have the cash and the clout, but for this whodunnit, they lack any real motive. (And given the hash they've made of CD-i, let's hope it's not them.)

Sony's only connection with Commodore is the CD³²'s drive technology, and they have no real need of a computer company – although some pundits have proffered the theory of an encircling manoeuvre to get hold of Newtek's Toaster technology.

Nintendo simply don't fit into the equation (they've got enough to worry about with their impending Project Reality system), which leaves a two-horse race with Samsung and Hewlett Packard.

Hewlett Packard's involvement with Commodore's AAA RISC chip set makes them look a good bet. But historically they haven't even bothered to provide Amiga printer drivers – so what would make them change their mind now?

Finally, Samsung is your typical, sprawling Korean electronics company with fingers in every pie going, including TVs, video recorders, camcorders, 3DO players, CD-i players – but, up until now, no computers.

So, place your bets, please...

THE RISE AND FALL OF COMMODORE

The Amiga has long been Commodore's main source of income, but their market dominance has been eroded on the games side by Sega and Nintendo, and on the serious side by low-end PCs and Apple Macs.

As sales have diminished, Commodore have been forced to drop prices to remain competitive. This is reflected in a turnover that peaked

| YEAR | TURNOVER | PROFIT |
|------------|------------------------|-----------|
| 1988 | \$871.1 | \$55.8 |
| 1989 | \$939.7 | \$51.3 |
| 1990 | \$887.3 | \$1.5 |
| 1991 | \$1,047.2 | \$57.6 |
| 1992 | \$911.0 | \$27.6 |
| 1993 | \$590.8 | (\$356.5) |
| Figures in | millions of dollars Lo | |

massively in 1991 but has been in decline ever since. Meanwhile actual profits have gone through the floor, resulting in a net loss in 1993 of \$356.5 million. The 1994 figures have not shown any reversal of fortunes. Yet.

COMMODORE: A BRIEF HISTORY

Commodore began life in 1958 in Canada, where it manufactured punchcard systems, typewriters and – ironically given recent events – cash tills.

With the advent of silicon technology, Commodore saw an opening for personal computers and, in 1974, bought a company called Micro Office Systems. MOS reworked Motorola's 6800 chip to produce the legendary 6502. It was the 6502 that would form the basis of, arguably, the first personal computer: VIA – the Versatile Interface Adaptor.

However it wasn't until the CES of 1977 that Commodore showed their first marketable computer, the Personal Electronic Transactor or PET.

The VIC soon followed with colour display and... computer games! This opened the door for the C64 which would go on to be the single most popular home computer of all time. The profits generated by the C64 then enabled CBM to invest in the Amiga technology back in the mid-Eighties.



mmm. There's something strange going on. With all this rumpus about whether or not the UK will see an A1200 CD-ROM drive and whether or not Commodore are going to merge with another company in order to be able to more effectively build and market its wares, I got to thinking.

The A1200 CD-ROM drive is obviously going to be in demand, even without FMV compatibility, so it seems silly for Commodore UK to suggest it will not sell in this country. And, of course, it seems Commodore UK has relented. But why, suddenly, does Commodore need investors? We all know the company is short of cash, but that's been the situation since 1992, since before the release of the A1200, and it hasn't stopped the production lines or publicity machine yet.

What is it that Commodore want to build and market that suddenly needs a large injection of cash? The next generation RISC-based Amigas? Well, maybe. But probably not. Current models? Nah, surely not. Must be something we haven't heard about, then. And I think I know what it is. The A1400.

Picture an A1 200. Lop off the numeric keypad, like the A600. Picture a CD1200 only a bit higher and deeper perhaps, but still top loading and with a PCMCIA slot in its right hand side – look at page 24 of last month's issue if you need help with that.

Mould that on to the left-hand side of the A1200. Replace the Kickstart 3 chip with Kickstart 3.1, imagine a CD with the words Workbench 3.1 stamped on it, stick an A1400 badge on the lot and there you have it.

No wonder we haven't heard about it. News of this sort would certainly kill sales of the A1200 stone dead, especially as such a machine would probably be priced at £399 or thereabouts. And there's a hidden agenda among all this lot.

David Pleasance's objection to importing the CD1200 into the UK was that it did not support the FMV module, yet nobody else in the trade who I've spoken to sees that as a big problem, more of a slight inconvenience.

Video CD is deeply wonderful technology, but it is going to take a year or longer for it to catch the public's imagination, if it ever does. Most homes already have a video recorder and a video tape collection, and most homes are not going to scrap the lot just because of Video CD, which – although you wouldn't think it from the reports – is a technology that is still nowhere near perfect.

The important thing is that the A1200 CD-ROM drive should be able to run all normal CD³² software, and it can. This must be why so many Amiga Format readers want it. David Pleasance insisted that it was the after-sales complaints to Commodore he wanted to avoid, which might mean having to specifically state in advertising that the A1200 CD-ROM drive was not FMV compatible. To me this sounded like a man clutching at straws in an attempt to hide the real reason. By his own admission he says: "We have to have some secrets".

Could it be that Mr Pleasance objected so energetically because of one of those secrets, because he knew that there was an Amiga just around the corner that has a CD³² built-in, one that will support the FMV module?

Such a machine would wipe the floor with the competition next Christmas, but only if Commodore could afford to tool up and manufacture hundreds of thousands of them, and then stage a massive TV advertising campaign. And that needs money, something Commodore hasn't got a lot of and isn't going to get a lot of just by selling what's currently on the shelves.

I could be talking out of my bottom again, and I don't think you should put off buying that A1200 you have been saving for, but I know a smokescreen when I see one and Fred's Haberdashery in Maidenhead has been doing a roaring trade in gas masks lately.

THE OPINIONS EXPRESSED HERE ARE NOT NECESSARILY THOSE OF AMIGA FORMAT

CD-ROM drive launch delayed

he A1200's add-on CD drive looks set to experience continued slippage as Commodore continue to debate whether or not to perfect a Full Motion Video add-on for the unit.

The drive was originally pencilled in for a September launch, but now Commodore don't envisage a release before the end of the year.

When the drive is launched Commodore will look at the viability of each marketplace, but they have indicated that a pan-European launch is likely. The company is still unwilling to make any comment on the likely price of the much-vaunted add-on.

The delay stems from Commodore's perception of the product, the technicalities of creating an FMV module and the restructuring of the company after the demise of Commodore USA.

The CD³² is already FMV compatible, and sources tell us that Commodore are reluctant to release the unit without this capability. Because Commodore US have ceased to exist, all development may be moved to this country and this could well delay the release process.

Developers who we approached indicated that nobody from Commodore had spoken to them about the add-on. Steve Turner from Graftgold, the company responsible for *Fire And Ice*, said he believed Commodore were delaying release until January 1995. He said that nobody had approached him about the CD1200 and suggested that the company were simply testing existing CD³² products on the unit.

As we went to press, both Virgin's developers and Sensible Software weren't having much joy getting hold of one and weren't too bothered whether they did – one developer said that the A1200 was 'small beer' when compared to other CD systems. Another developer indicated that the problem may well lie in the different chip sets contained in the two machines – even if some CD³² titles run on the A1200 CD-ROM drive, it would be useless without complete compatibility.

Commodore's unwillingness to talk about the drive seems to stem from a reluctance to damage sales of CD³²s. No doubt they are worried that potential CD³² owners will simply buy a CD-ROM drive for their A1200.

Given that the add-on drive will appear around the busy Christmas period, they are justifiably anxious. All of this would explain Commodore's categorical denials of the machine's existence right up until the day it appeared at CeBit '94. The A1200 CD-ROM drive could well be the add-on that Commodore don't want.



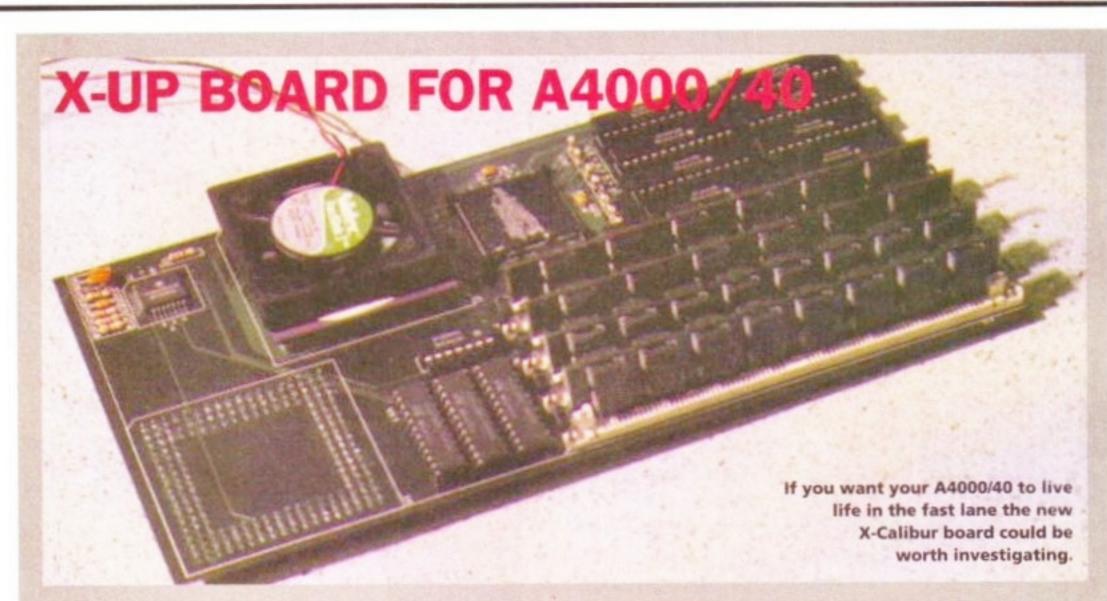
Munich-based Electronic-Design have added a new genlock to their product line. Launched at CeBIT '94, the Neptun-Genlok is targeted at the amateur market but promises professional results. At DM1.198 (around £480) the device offers a range of features previously found on high-end systems, such as Auto Fade, whereby you can set the time length of the fade for both video and computer signals.

The Neptun-Genlok has switchable manual/software control with hotkey and ARexx support, so you can cue it in with presentation software. The hardware also makes full use of the Amiga's Alpha channel, allowing you to create semi-transparent images which can be faded in and out proportionately with the video.

Interested videophiles should contact Electronic-Design GmbH, Detmoldstr. 2, Germany, 80935 München. Their fax number is 010 49 89 3545674.



Commodore UK denied the existence of the A1200 CD-ROM drive until days before it was unveiled at CeBIT. Then they said it would be released in the UK in September, now it's being held back till next year. What's going on?



Serious Amiga users in need of a power boost, will welcome the X-Calibur – an accelerator and RAM expansion unit designed for the A4000/040. The board piggy-backs the A4000/040 and so avoids taking up precious Zorro slots and can also hold up to 128Mb of standard 72-pin SIMMs. By dint of its memory design (memory bursting and interleaved 64-bit access) X-Calibur outperforms regular A4000 memory functions by 400 per cent at 25MHz. This translates to a speed increase almost double that of an unmodified A4000 and improves disk access by up to 20 per cent. And the beauty of the system is that you can take your existing CPU and memory (Fast RAM only) and reinstall them on the X-Calibur card without incurring the cost of extra – and possibly unnecessary – memory. However, the board is future-proofed and able to be upgraded to faster CPU's.

The current 25MHz X-Calibur costs £499.95; a price has yet to be decided for the 33MHz version which more than doubles the processing speed of an A4000/040. A 40MHz version is a possibility and there are plans for a 68060 version when the chip arrives. X-Calibur is available from Blittersoft, telephone or fax: 0908 220196.

NEWS

FREE MIDI HELP

Blue Ribbon Soundworks have started a free MIDI technical support helpline which is open to anyone using Amiga music software. Blue Ribbon – who are responsible for the award-winning Bars & Pipes Pro 2.5 and SuperJAM! 1.1 – have generously opened their phone lines to owners of Blue Ribbon products or, in fact, anyone in need of help in mastering MIDI. The telephone/fax number is: 081-332 6959 and is available from 11am to 4pm Tuesdays to Thursdays.

SERIOUS ADVICE

New Amiga owners could do worse than invest in one of the Get Serious With The Amiga titles from AmaKEY Design (0908 370230). These ringbound tomes by Larry Hickmott are designed to help explain away the files names, acronyms and technical jargon that surround our beloved hardware.

The first book covers clip-art and fonts, the second in the series – Word Processors – has been held up because of the late arrival of Wordworth 3, but is now in print. A third book dealing with the process of buying an Amiga should be out soon. At around 130 pages and for just a tenner, they're worth a punt.

CANNON FODDER 2

A source close to Virgin Interactive
Entertainment has confirmed that
Sensible Software are currently working
on a sequel to Format Gold-winning strategy game Cannon Fodder. Details are
scant at present, but we understand the
game will feature new levels, missions
and maps with a projected release date
of November. We'll give you more details
as we get them.

VISTA VOUCHER ERROR

Last month we featured the fractal landscape program Vista Pro and Vista Pro Lite on our discount voucher pages, offering a generous £20 discount if you bought either program from Meridian. What we in fact meant was that you would receive a £20 discount if you were supplied by Emerald Creative Technology Ltd, Rapid House, 54 Wandle Bank, London SW19 1DW, Tel: 081-715 8866, Fax: 081-715 8877.

OPAL UPGRADE

The version 2.3 software upgrade for OpalPaint is now available, boasting increased drawing speed on an A4000, a GIF loader, a VPB load/saver for compatibility with Quantel PaintBox systems, and customisable ARexx requesters.

The upgrade is free to anyone who sends a blank disk with the requisite return postage. A packaged software update is available for £1.95. For more details contact the 24Bit Club at 6 Skirsa Square, Floor 1, Glasgow G23 5DW or call 041-946 2191.



The Tim Smith Column

ow, I'm not going to go any further into the current situation with Commodore other than to stick by what I said in last month's column – the Amiga technology, including the AAA chip set and CD-x, will survive. I'll stake my own sense of self-worth on it (because, if I'm wrong, then thousands of people will mock me horribly and probably E-mail me with foul and abusive language).

There's a detailed report on the state of CBM and CIL on pages 18 and 19 of this issue, so let's move on with the thought that computing should always be elegant, and the

most elegant approach to it is the Amiga.

Right, this month has been a fraught one. For one thing, either an idiot or an idiot's friend or someone who thought he or she was having a good laugh decided to post a message asking for an FTP (File Transfer Protocol) site for cracked games. I must admit that I flew off the handle at this trite missive.

The idea of some fool publicising the fact that they couldn't be bothered to write their own games or write to the software houses complaining that the prices were too high, or could simply not be bothered to do something other than steal code irritated me just a little. I said that I was going to mention the buffoon's E-mail test in this column until someone with a little more cool than myself pointed out that maybe the person who posted this idiot-request might not actually own the computer.

This calmed my ire and lead me to thinking that maybe some people still take this kind of theft as a joke. Of course they do! It's unrelated to real life. After all, if someone wandered into your home and walked off with the bookshelves you'd just put up, you'd tap them on the back and say: "Yeah, off you go mate". Obviously if you'd just prepared a particularly good meal and some stranger sneaked in the back door and scoffed the lot, you'd laugh... maybe not.

The thing is, the majority of us do not spend our lives the way Jon Hare or Andy Braybrook do. The majority of us don't have the programming skills and the creative juices that are at the core of people like David Braben, Simon Armstrong and Jeff Minter. Compounding this is the fact that we just don't get to see these people (remember that word) too often.

There are rarely pictures of the programmers on the front of the disks which contain their games. What we see are logos for Sensible Software, US Gold, Ocean, Electronic Arts, Renegade... We see corporations and these distance us from the real work that goes into producing a single budget game. This distance, or alienation, as I recall it being called back in the Eighties, makes it seem less atrocious for the majority of usually normal, crime-aware people to commit the heinous crime of stealing someone's creativity and hard graft.

Well, think along these lines. If the company that you (or your dad or mum or sister or wife or husband) works for was to suffer from regular, endemic theft, who would be the first ones to suffer when the bottom line on the company spreadsheet is re-drawn? Would it be the company directors? I think not. Would it be the accountants? Don't they control the spreadsheets? Would it be the middle management, or the investors? Nope.

The first people to suffer would be those who consume the products (prices would rise, or at least not fall) and the people on the shopfloor, the people who actually create the goods. I hope that thought adds perspective to those who crow about digital revolution and freedom of code. See you next month.

Tim Smith is Technology Editor of Computer Trade Weekly. Contact him at tsmithb@cix.compulink.co.uk and timbo@gashead.demon.co.uk.

THE OPINIONS EXPRESSED HERE ARE NOT NECESSARILY THOSE OF AMIGA FORMAT

New Frontier

ollowing the new Computer Combat/Innovations A1200 bundle (News, AF58), distribution company ZCL have announced the Frontier/Innovations pack, which boasts David Braben's Elite sequel, Frontier, plus Ocean's innovative Batman Returns.

This brings the full games content up to Frontier (Gametek), Batman Returns (Ocean), Zool 2 (Gremlin), Brian The Lion (Psygnosis) and Total Carnage (ICE); while the serious side remains the same with Personal Paint v4 (Cloanto), plus Print Manager, Day By Day and Wordworth AGA (all from Digita).

According to Don Carter, chairman of ZCL, the reason behind the re-bundling is twofold: firstly, the Combat bundle was based on the inclusion of *Total Carnage*, but the blood 'n' guts artwork was turned down by Commodore Germany on account of its gory content. The resulting cartoon artwork was deemed to be immature given the target audience.

Secondly, ZCL weren't overly impressed with the bundle's content. The serious side was well catered for, but the games needed bolstering. And having secured *Frontier* – the best-selling Amiga

game of last year – the decision was then made to ditch the cartoon artwork and reduce the prominence of the other titles in favour of *Frontier* – which was already considered to be the biggest selling point of the bundle.

Don now believes that this bundle is the best there's ever been – and with a price tag of just £349.99, who can argue?

Prospective A1200 buyers should be aware of the variety of deals around at the moment: the Desktop Dynamite pack (around £230) is still doing the rounds, either with free games or hard drives included; the Race 'n' Chase pack (£299) is still available; Silica are continuing to bundle the Chaos pack, which contains four AF Gold-rated games – The Chaos Engine, Syndicate, Pinball Fantasies and Nick Faldo's Championship Golf – plus GFA Basic v3.5 and Photon Paint II – for £265.

The Frontier/Innovations pack (£350) is now available either as the themed bundle or as the Computer Combat pack with Frontier and Batman Returns in the box.

Whichever one you choose (and, let's face it, they're all pretty tempting) there's never been a better time to upgrade or join in the fun!

SIM CITY SEQUEL TO HIT THE STREETS

American developers Maxis have finally confirmed that Sim City 2000 is to be released on the A1200 in September. The long-awaited sequel to Sim City (AF6, FG92%) comes with a host of exciting new features including 3D buildings which can be viewed at three different magnification levels.

A 360-degree rotation feature gives you different perspectives on your city, you can modify the terrain with mountains, rivers and waterfalls, and there's an underground level which enables you to build tunnels, subways and water networks underneath your city. Sim City 2000 is



Create your own futuristic metropolis with a little help from American developers Maxis and their stylish sequel to Sim City.

available for the A1200 only, price £29.99. Contact Maxis on 071-490 2333.

Virgin wins coveted industry award

London-based publishers Virgin Interactive Entertainment have scooped the games industry's most prestigious award – Publisher Of The Year.

Virgin's PR Manager Danielle Woodyatt was on hand to receive the award at a special ceremony held at April's European Computer Trade Show at the Business Design Centre in Islington.

Over the past 12 months Virgin have received no fewer than four Format Golds for Beneath A Steel Sky, Cannon Fodder, Dune 2 and Reach For



PR Manager Danielle 'Woody' Woodyatt collects the Publisher of the Year Award on behalf of Virgin Interactive Entertainment. Three cheers and all that...

The Skies. Other Virgin titles released in the past year include Goal!, Global Gladiators and the all-conquering Mortal Kombat.

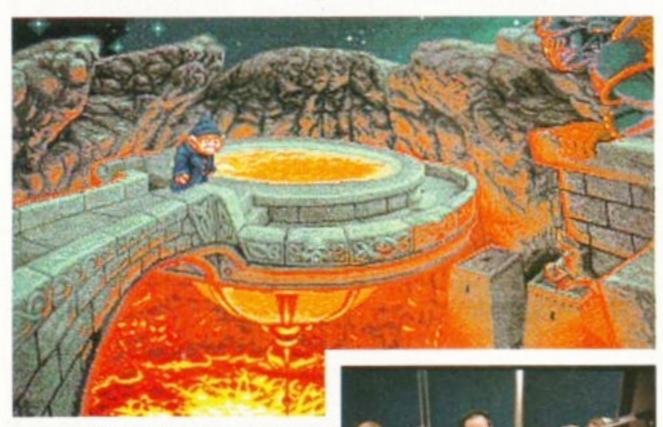
JUNE 1994

for the A1200



New from ZCL, the Frontier/Innovations pack, which is one of many excellent A1200 bundles now available.

TV stars speak out for Simon



Sordid's fiery fortress is just one of the new locations included in the sequel to Simon The Sorcerer.

Red Dwarf star Chris Barrie puts his vocal talents to the test in the CD³² version of Simon The Sorcerer. **British developers Adventure** Soft have roped in stars from *Red Dwarf* and *Spitting Image* to provide the voices for the CD³² version of the graphic adventure *Simon The Sorcerer*.

Chris Barrie, who plays Rimmer in *Red Dwarf*, is providing the voice of hero Simon, while Roger Blake plays Calypso and Sordid. Other actors and actresses are providing the remaining speech, giving a total of over 3,500 individual spoken samples. The CD³² version of the game also features digitised sound effects and an upgraded musical soundtrack. It should be released soon, price £39.99.

Fans of the original game will also be pleased to hear that Adventure Soft are currently working on a sequel to Simon The Sorcerer for release later in the year. Simon the Sorcerer 2 finds the evil Sordid making a ghostly reappearance as Runt, a character

who's vowed to wreak his revenge on the hapless Simon. The new game promises more animated sequences, and digitised sound effects. As well as standard Amiga and A1200 versions, there will also be an enhanced CD³² version featuring Chris Barrie and Roger Blake. More details from Adventure Soft distributors PDQ on 021-625 3377.

AF BULLETIN BOARD RECEIVES A WELCOME BOOST

Amiga Format's official Bulletin Board, Spong! – as those of you who have been trying to log on to it will already know – has still been having a few problems. We won't go into all of them here, but what we will tell you is that for the past two weeks (that is two weeks before AF hit the streets on Thursday 26 May) Spong! users have been able to read all the top news stories from these pages, plus reviews and features from this very issue.

Now we know it's taken us time to get Spong! in order, but we're determined to make it work. In the next couple of months we will be setting up a much more efficient service with more phone lines, plenty of files and up-to-the-minute Amiga information for all modem users around the UK.

So, the message is: keep on Sponging by calling:

0225 311647

NEWS

THE WRITE WP STUFF

Should you feel a burning desire to correspond with pen pals in the Middle East, Greece, Russia or India, the only possible word processor you could want is Rashumon (\$200 from HarmonySoft in Israel. Tel: 010 972 3315 967).

This fully-featured multilingual WP can cope with different and opposed-direction text in the same document, and so keeps the logical order of sentences even after reformatting. It supports English, Hebrew, Arabic, Syriac, Hindi, Greek, Cyrillic and Farsi text and contains many useful features such as a range of picture file input, maths expressions and extensive search/replace options for style, font and even type colour.

FCC BBS

After two years of planning, First
Computer Centre have finally unveiled
their Bulletin Board service. Net surfers
will find full technical support for FCC's
products, details on new releases, PD and
Shareware programs, drivers and more.
The number to dial is 0532 637988 but
FCC warn that as the BBS is still in its
infancy the contents may not be overly
impressive, just yet.

GAMEXCHANGE CHANGES

Following industry feedback from the Spring ECTS, the organisers of GameXchange '94 have altered tack slightly, opening up what was intended as a Summer console show into an allformats computer event. The show – now entitled Computer Deals '94 – will take place at Olympia from July 22nd to 24th and while the central GameXchange theme is retained – providing a controlled environment for the trade of cartridge games – the show now offers Amiga owners plenty of scope to pick up a bargain. Or maybe two.

Prices range from £7 adult to £5 for kids, with a special £20 family deal.

Advance tickets can be be obtained from the hotline number, which is 0369 5335.

FODDER FOR THOUGHT

Future Books have released the Official Cannon Fodder Playing Guide, which contains general tips, plus maps and instructions for finishing every phase of each mission. The book has 100 pages, it's in full colour throughout and costs a meagre £9.95.

Written by Amiga Power's Cameron Winstanley (who has finished the entire game), it should end all of your Cannon Fodder woes – unless you are inherently crap, of course.

The OCFPG is on sale in all good bookshops (and a few tawdry ones) and will be available through the pages of this hallowed organ: look out for the special ads in the next issue.

THIS MONTH'S TOP 30 A500/A600

| 1. | (8) | Up | Beneath A Steel Sky (Virgin) | FG94% |
|-----|------|------|--|----------|
| 2. | (2) | Same | Man Utd Premier League Champions (Krisalis | 3) 81% |
| 3. | (1) | Down | Cannon Fodder (Virgin) | FG95% |
| 4. | (3) | Down | Frontier: Elite 2 (Gametek) | FG90% |
| 5. | (7) | Up | Skidmarks (Acid Software) | FG90% |
| 6. | (5) | Down | Premier Manager 2 (Gremlin Graphics) | 80% |
| 7. | (6) | Down | The Settlers (Blue Byte) | FG94% |
| 8. | (-) | Re | Fury Of The Furries (Mindscape) | 55% |
| 9. | (13) | Up | Sensible Soccer 92/93 (Gremlin Graphics) | 80% |
| 10. | (4) | Down | Liberation: Captive 2 (Mindscape) | 80% |
| 11. | (10) | Down | Mortal Kombat (Virgin) | 74% |
| 12. | (15) | Up | Jurassic Park (Ocean) | 70% |
| 13. | (-) | New | Darkmere (Core Design) | 80% |
| 14. | (-) | Re | Theatre Of Death (Psygnosis) | 49% |
| 15. | (16) | Up | Championship Manager Italia (Intelek) | 85% |
| 20. | (20) | Same | The Chaos Engine (Renegade/Mindscape) | FG90% |
| 17. | (-) | New | Heimdall 2 (Core Design) | 81% |
| 18. | (9) | Down | Zool 2 (Gremlin Graphics) | FG93% |
| 19. | (11) | Down | Award Winners - Gold Edition (Empire) | 10/10 |
| 20. | (-) | New | Perihelion (Psygnosis) | 75% |
| 21. | (-) | Re | Genesia (Mindscape) | 71% |
| 22. | (21) | Down | Simon the Sorcerer (Adventure Soft) | 84% |
| 23. | (-) | New | Monopoly (Supervision) | 75% |
| 24. | (-) | Re | Syndicate (Electronic Arts) | FG91% |
| 25. | (25) | Same | Sim City Deluxe (Infogrames) Not | Reviewed |
| 26. | (12) | Down | Championship Mgr Compendium (Domark) | 7/10 |
| 27. | (26) | Down | Lemmings 2 (Psygnosis) | FG94% |
| 28. | (-) | Re | Air Force Commander (Impressions) | 69% |
| 29. | (22) | Down | Micro Machines (Codemasters) | FG90% |
| 30. | (23) | Down | World Class Cricket (Audiogenic) | 78% |
| | | | | |

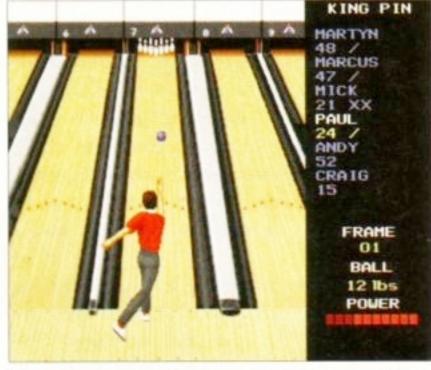
Chart compiled by Gallup

TEAM 17 GO BOWLING

No sooner have they released Arcade Pool to an unsuspecting public than Team 17 announce the release of an all new arcade game. Kingpin is a tenpin bowling game featuring a six-player competition mode, 3D rendered animations, aftertouch and adjustable bowling power - all for the princely sum of £9.99.

Other features include male and female player options, full auto-scoring, a choice of bowling balls and digitised sound effects. Kingpin is released in August in both standard Amiga and CD32 versions, with the CD version costing £3 more.

More details are available from Team 17 on 0924 385903.



Ex Amiga Format editor Marcus Dyson indulges in a spot of product evaluation in Team 17's tenpin bowling game Kingpin.

THAT'S MARVELLOUS, MARVIN

21st Century Entertainment have temporarily averted their gaze from the pinball table and come up with a cutesy platform game called Marvin's Marvellous Adventure. The hero is a pizza delivery boy who tries anything to make sure his customers get their food.

However, Marvin faces his biggest challenge when the recipient of a pepperoni pizza goes missing. Cue 90 levels and 10 worlds of platform-leaping, baddie-baiting and goodie-collecting. Marvin's Marvellous Adventure is available on CD32 only from September, priced £29.95. You can find out more by giving 21st Century a ring on 0235 851852.



Marvin's Marvellous Adventure: pizza-packin' platform fun.

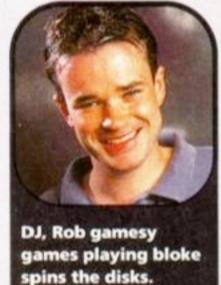
A1200 AND CD32 GAMES

| 1. | Ryder Cup Golf (Ocean) | FG91% |
|----------|--|--------------------------|
| 2. | Brutal Football (Millennium) | 77% |
| 3. | Star Trek: 25th Anniversary (Interplay) | 50% |
| 4. | Jurassic Park (Ocean) | 70% |
| 5. | Total Carnage (ICE) | 43% |
| 6. | Simon The Sorcerer (Adventure Soft) | 84% |
| 7. | Alien Breed 2 (Team 17) | 80% |
| 8. | Civilization (Kompart) | FG95% |
| 9. | Sim Life (Mindscape) | 86% |
| 10. | Body Blows Galactic (Team 17) | 88% |
| Top | o Ten CD32 Games | |
| 1. | Frontier: Elite 2 (Gametek) | FG91% |
| 2. | The Chaos Engine (Renegade/Mindscape) | FG92% |
| 3. | Liberation: Captive 2 (Mindscape) | FG91% |
| 4. | Gunship 2000 (MicroProse) | FG92% |
| | Sensible Soccer 92/93 (Renegade/Mindscape) | FG93% |
| 5. | | |
| 5. 6. | Brutal Football (Millennium) | 86% |
| | Brutal Football (Millennium) Project X/F17 Challenge (Team 17) | |
| 6. | | 84% |
| 6. 7. | Project X/F17 Challenge (Team 17) | 86% 84% 87% 82% |

CHART CHAT

Chart compiled by Gallup





There are some decidedly spooky things going on in this month's chart. For starters Fury Of The Furries - Mindscape's unusual, but intriguing platformer - has bounced back in at number eight. We're dumbfounded. The reappearance of Theatre Of Death at number 14 is a bit of a shocker too. These two games are joined, incidentally, by three other re-entries and two new entries - Core Design's RPG adventures Heimdall 2 (reviewed this issue) and Darkmere.

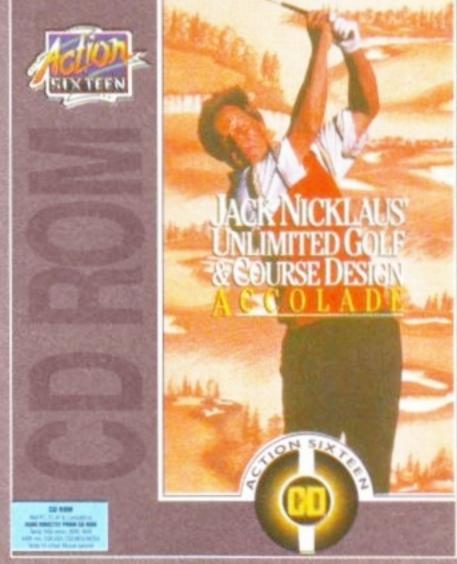
Less surprisingly, Revolution Software's brilliant graphic adventure Beneath A Steel Sky soars to the top of the chart after making its debut at number eight last month. This rise has knocked Cannon Fodder down to three with Manchester United Premier League Champions sticking firmly at two. Krisalis are positively cock-a-hoop at Man Utd's recent cup success, since Premier League was intended to celebrate the Old Trafford team's victory last year.

The A1200 and CD³² charts remain pretty unchanged. The only new AGA entries are ICE's faithful but flawed Total Carnage conversion and Team 17's Body Blows Galactic. The CD32 Top Ten finds Frontier: Elite 2 leaping to the top of the pile with the enhanced helicopter antics of MicroProse's Gunship 2000 (both reviewed this issue) making their chart debut at number four.

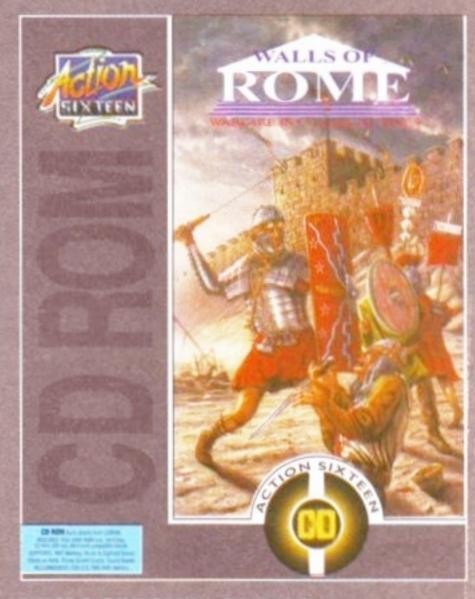
ROB MEAD



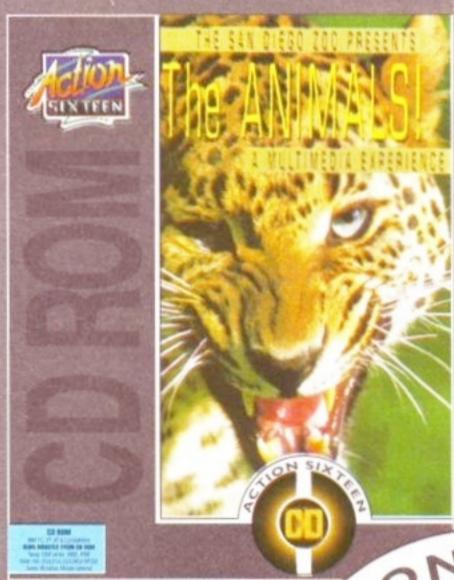




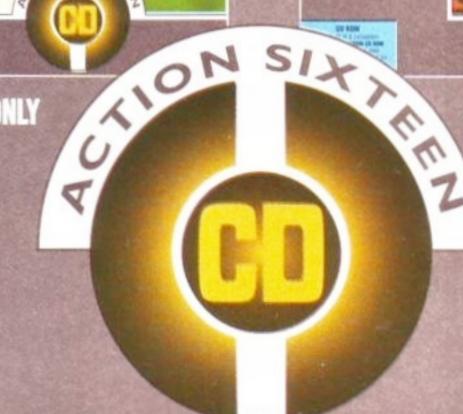
JACK NICKLAUS' GOLF - CD, PC & AMIGA



WALLS OF ROME - CD & PC

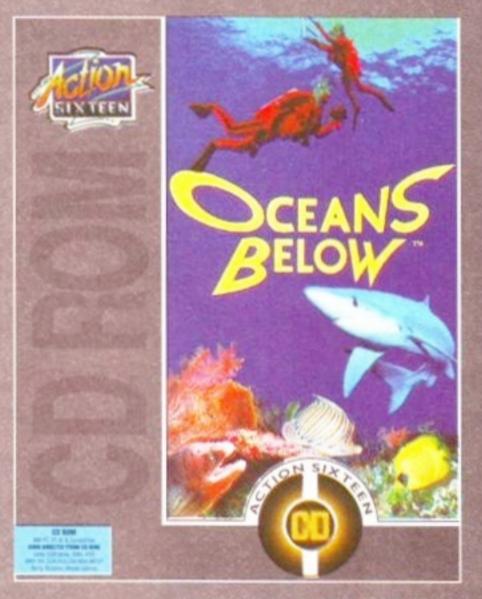


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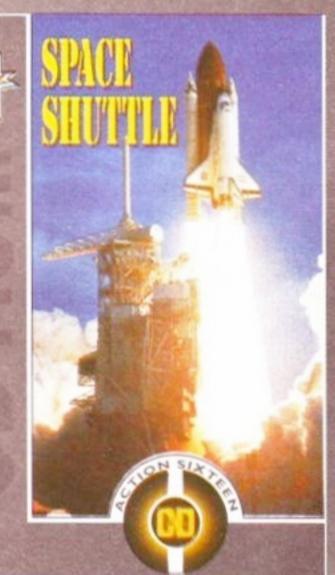


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24-BIT PAINT PACKAGES

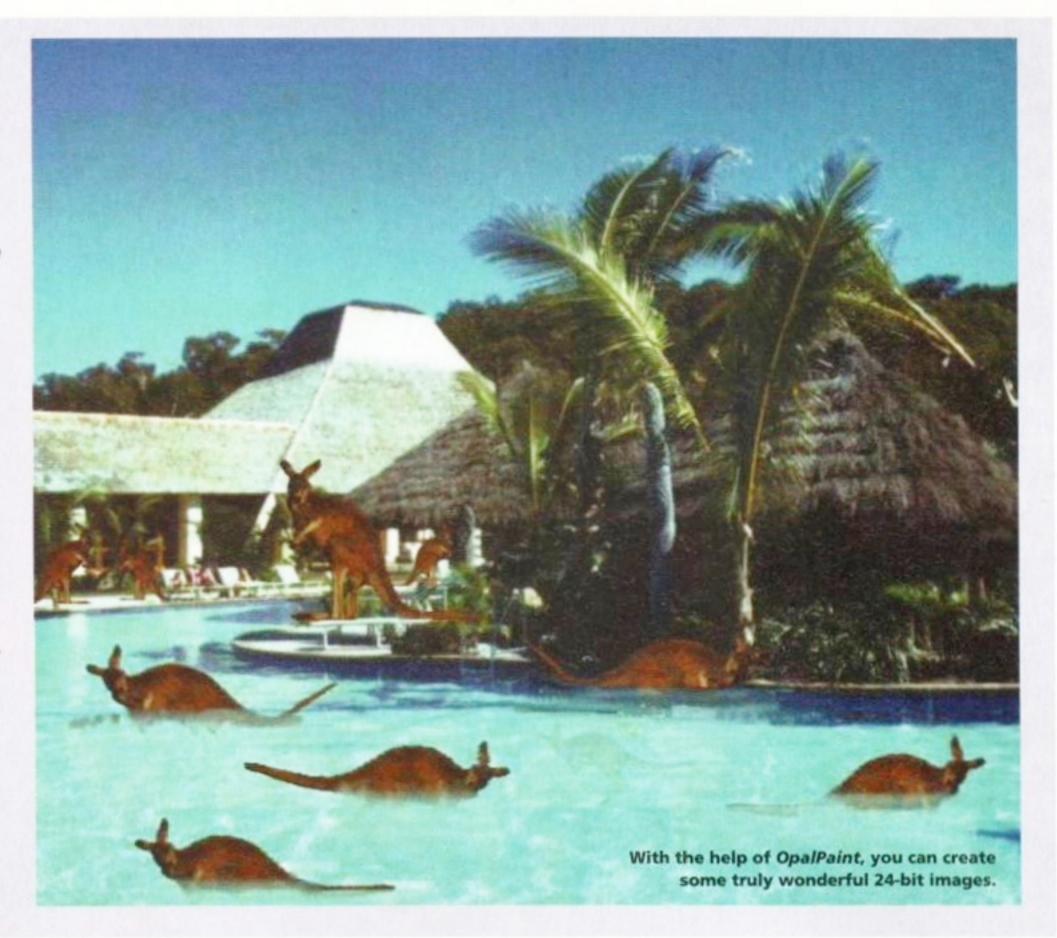
After a rather dry period, Amiga paint programs are coming on in leaps and bounds both in terms of speed and performance. However, they still have a lot to do before they can approach some of the dedicated 24-bit paint packages.

When a 24-bit graphics card is used to replace the Amiga's native graphics, the increase in speed is terrific. This is because the extra video hardware can store the image in its own memory in a way which is a lot easier for the Amiga to access. Graphics cards don't have to deal with HAM and HAM8 tricks, nor do they have to pick colours from a pre-set palette – the colours are always available.

The undisputed King of Amiga paint programs is *TVPaint2*. For features, speed and sheer enjoyment, nothing comes close. At first glance the tiny floating requesters seem pretty dull, but after a few hours use no Amiga chip set program comes close.

There are other 24-bit packages, such as Brilliance from Digital Creations, which don't rely on a 24-bit graphics card. These work to a 24-bit internal resolution, but can only be displayed to the limits of your Amiga.

Why bother if you can't see the difference?
Well, the images created will look great when printed. Also, the greater quality can make for improved displayed pictures, particularly after a series of complicated image processes – the better the quality you put in, the better quality you get out again.



PERSONAL PAINT

The paint package which has won the accolade of being included in the next Amiga bundle is *Personal Paint* version 4.0. *PPaint*, as it's affectionately known, can deal with all graphics modes up to 256 colours. There is also support for loading and view-

Cloanto PPaint (a) 2: Clown.gif

a few colours in it. This picture of a clown is one of the demo images provided with *Personal Paint*. It is a 320 x 200 pixel, 256 colour picture, so it will make a splendid basis for our experiments.



The texture process has simulated a textured backdrop for the image – a kind of canvas effect. The image has lost some detail though and the whole thing appears to be more diffused.

ing 24-bit and HAM images, although you can only work on these in 256 colours.

As well as the standard tools we have already mentioned, *PPaint* has several unique functions. Possibly the most interesting of these are the image processing facilities. These processes can be applied to complete images, brushes or user-



2 Apply one of the processes on the whole image. This is called Watercolour and is supplied with PPaint. It effectively reduces the number of colours used and creates a more shaky, hand-drawn effect. The line shows how far the process has reached.



We can create our own process in *PPaint*. This is an example of a convolution matrix. The matrix is applied to each pixel in turn. The values in the cells determine the result.

defined areas of the image. The processing is carried out on the image using one of several methods. The most common of these are convolution and popularity matrices. These are simple mathematical functions which are applied to the colour values of each pixel in turn. The results can be quite dramatic as we will see.



Now we apply another process. There are over 25 effects supplied with *PPaint* and if you don't like any of those, you can always create your own. We will use the texture effect next.



The modified blur process we created in step 5 results in a washed-out image with reduced colour range. You can generate almost any effect with the right matrix.

But what exactly is a bitmap paint package? Graphics on the Amiga, and indeed many other computer, are composed of little tiny dots known as pixels (short for picture elements). These are arranged in a grid on the computer screen to make up a picture. So a paint package is really just a tool that allows you to choose the colours of these individual blocks.

SIMPLE TOOLS

Of course, choosing the colour value of each pixel in turn would be a bit of a slow and tedious process. Even the most primitive paint package has to have some easier method of painting an image. The obvious analogy, and the one that has been adopted by computer paint packages since the days of the first colour home computer, is with a more conventional artist's tools.

The artist would have a palette with several paint splats on it from which they could make up the colours they want, and they would probably have a selection of different-sized brushes.

In computer terms, the palette is the part of the art package where the colour values are chosen. On the Amiga, as with every computer system, you are limited to how many different colours you can display on screen at once. This is due to the memory requirements and hardware restrictions of working with bitmap graphics.

Colours for computer paint packages aren't quite the same as colours that come out of a tube. Colours displayed on a television screen are made up of red, green and blue components. Each colour on a computer art package is also made up of red, green and blue components, usually controlled on a slider.

On an AGA Amiga, the values for each component can range from 0 to 255, giving a total of 16.78 million colours to choose from. In practice, the human eye cannot distinguish between that many colours, so it should be good enough for even the perfectionists among us.

ASPECT RATIO

into account.

The aspect ratio may not seem important to you when you are actually drawing things on the screen, but it can become very important when you are printing out.

The individual pixels which make up your screen image are not exactly square – they are slightly rectangular. Depending on the particular Amiga screen mode you are using they may be more or less rectangular.

The ratio of the width to height of the pixel is known as the aspect ratio. The ratio for the average TV display is 16:19. The problem is that when you print out your work, the aspect ratio of your printing device may not be the same, resulting in a distorted image. Fortunately, most printer drivers do take this

Brushes are simply made up from patterns of

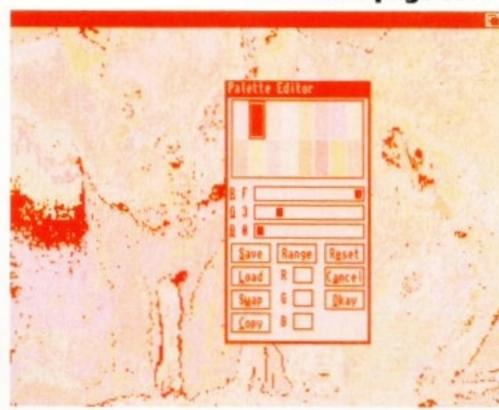
Brushes are simply made up from patterns of dots. Usually the paint package will have a selection, ranging from a single pixel, to brushes several pixels in each direction, and either square or circular in shape. In all but a few paint packages you can also create your own brushes, simply by copying a section of the main image.

Once you have your brush, simply select a colour and get painting. Painting freehand is not always going to get the best results, especially because the mouse is a difficult tool to master. For this reason, you will have simple shape drawing tools. *Personal Paint*, for example, has square, circle, ellipse, line and curve tools. These simply drag your chosen brush in a perfect geometric shape to aid your accuracy. You can move the mouse to change the shape as long as you keep the button pressed down. Only when you release the mouse button are the changes to the image rendered.

GOING DEEPER

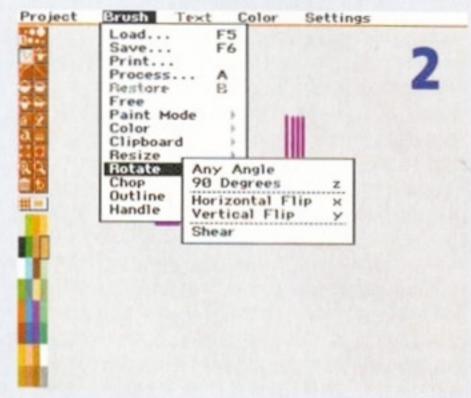
After that, paint packages tend to differ. Most will offer many different paint modes. These will control how the pixels in your brush change the pixels on the 'canvas'. A basic replace operation is fast and easy to understand, but that is not how real painting works. If you are painting with water-colours, when you paint over a colour already on the image, it isn't simply replaced. And with oil paints, even more complicated blending goes on.

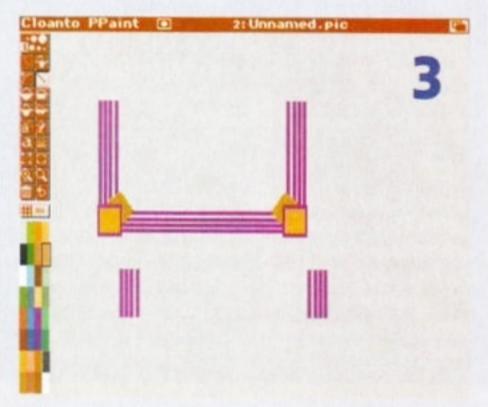
Continued page 33 🖝

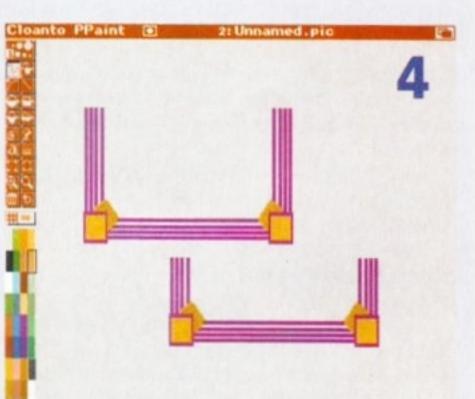


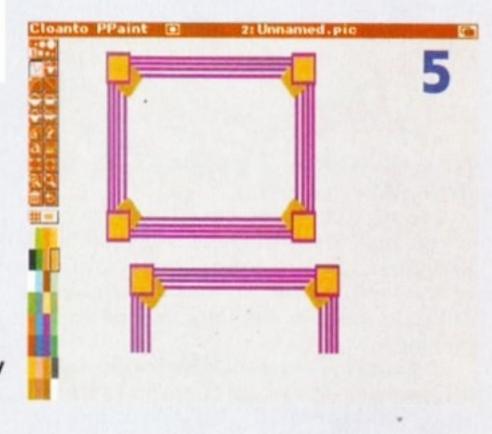
Very few Amiga paint packages support the ARexx macro language. RPaint is one of the lucky ones.

Cloanto PPaint 2: Unnamed.pic









HOW TO GET THE BEST EFFECTS USING BRUSHES

1 Having (badly) drawn one corner of the intended picture frame, we can clip off the corner and use it as a custom brush.

2 This menu shows how you can manipulate a brush with *Personal Paint*. We want to create the bottom left corner now, so all we have to do is rotate by 90 degrees.

3 Hurrah! The bottom of the frame is done. Now by cutting a brush from a horizontal strip we

can elongate the sides. This can be produced with the line drawing feature.

A Now we can clip the entire bottom of the frame to use as a custom brush. This time, all we need to do is to flip the brush about the x-axis to make up the top of the frame.

5 Now the top of the frame is complete. Obviously you can now pick up the entire frame as a brush and place it anywhere you like.



FILE FORMATS

Saving a picture to disk might seem very simple when the menu options are presented, but behind the scenes a lot of work is going on.

The image data is stored in memory in 'raw' format, and it needs to be copied into a file along with information describing the picture's dimensions and the colours used in it. This takes time, and if the image is to be compressed to save disk space, it takes a fair bit of cunning as well.

IFF

The standard Amiga format, IFF stands for Interchange File Format and IFF files can contain everything from text to sampled sounds. The specific IFF format used for pictures is usually ILBM, which stands for InterLeaved BitMap.

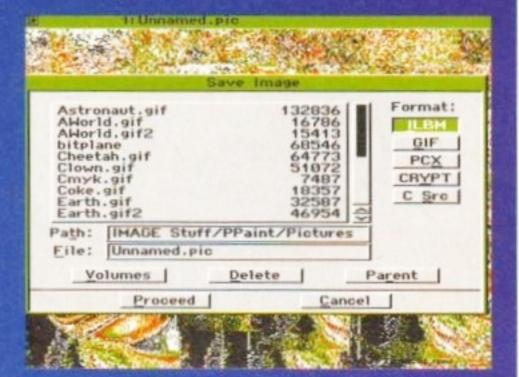
The IFF standard is very flexible, and it needs to be: there are hundreds of possible Amiga screen sizes and colours. Basically, an Amiga image can have any size up to about 32,000 x 32,000 pixels square with 16 millions colours but in general images usually conform to sizes which can actually be displayed.

For this reason file sizes of 320 x 256 with 32 different colours are common (low resolution), as are 640 x 512 in 16 colours (high resolution). Newer Amigas fitted with the AGA chip set can now display 640 x 512 pictures in 256 different colours, or use a special HAM8 mode to display many thousands.

A good IFF compatible loader will deal with these formats, but older software might not have followed the official recommendations to the letter and might behave unpredictably when faced with a new, improved image.

GIF

The GIF format is in very common use in the IBM/Clone PC market. These computers have a video standard called SVGA which allows images to have up to 256 different colours. GIF files never allow more than 256, although the data contained in the file is usually pretty well compressed. If you are looking around Bulletin



Personal Paint can deal with a number of file formats, including JPEG and GIF.

Boards, most pictures you find are in GIF format. Several Amiga programs load and save them, and there are several GIF 'DataTypes' available in the Public Domain. When used with a program such as *Multiview*, the DataType allows GIF images to be loaded and displayed.

JPEG

Unlike other file formats, Joint Photographic Experts Group (JPEG) doesn't try to store the file perfectly. Instead it performs a series of mathematical processes to try and store only the information that is essential to allow the image to be recognised. Very fine details are ignored, with the net result being a dramatic reduction in the storage space needed to contain the image file.

The JPEG system works best when large images containing many colours are used: a 24-bit (16 million colour) digitised images for example. When used judiciously, a compression ratio of almost 10:1 can be achieved, with very little apparent degradation of the image.

Not many Amiga paint packages can cope with JPEG compression, and unless you deal a lot with 24-bit pictures it isn't really necessary.

Again, there is a JPEG DataType available in the Public Domain which makes loading compressed pictures into *Multiview* possible.

JARGON BUSTERS

AGA – Advanced Graphics Architecture is the name given to the custom chip set found in the A1200 and A4000 machines. It allows up to eight bitplanes of colour data.

ARexx - An Amiga scripting language used to control many programs, from spreadsheets to DTP software.

CrossDOS – an AmigaDOS extension which enables the Amiga to read and write PC format floppy disks.

DataType - A file format extension system for AmigaDOS. Programs which open the DataType database can read files in many different formats.

Extra-Halfbrite – An Amiga screen mode which allowed 64 colours on screen – 32 normal colours and 32 that are half the brightness, hence the name.

EGS – Enhanced Graphics System. A standard for 24-bit graphics cards which is OS friendly.

GIF – Generic Image Format. An Image format popularised by the Compuserve information service.

IFF – Interchange File Format. A standard way of storing data of all types on the Amiga Interlace.

HAM – Hold And Modify. A system cheat that enabled older Amigas to display 4096 colours. HAM8 – Hold And Modify 8 bitplane. An AGA version of the original HAM format, but now it can display 262,144 colours.

JPEG – Joint Photographic Experts Group. A file format developed for photorealistic images which features astounding compression ratios.

Pixel - Picture ELement

PCX - An image file format popular on the IBM PC.

RTG – ReTargetable Graphics. A system where all the normal computer screen functions are transferred to a different display system, usually a 24-bit graphics card.

SCREEN DEPTH

Each screen, whatever its width and height, also has a depth. The depth is simply the number of bitplanes required to display the number of colours requested.

A bitplane is a section of memory reserved for the image, with one bit of information for every pixel on the screen.

For a standard 640 x 256 pixel screen, each bitplane would consist of 640 x 256 bits (= 163840 bits or 20K).

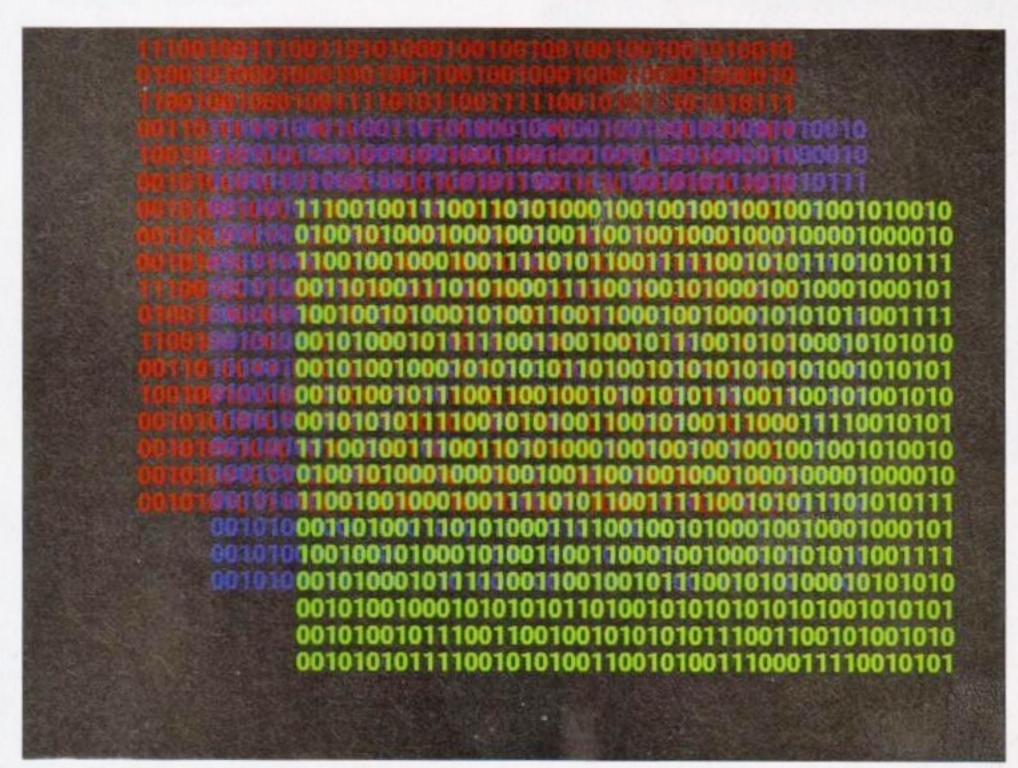
A two-colour image would only need one bitplane, because each pixel would be either on or off. For more colours, further bitplanes are added. With two bitplanes you get the following situation:

BITPLANE 1: 0 0 1 1 BITPLANE 2: 0 1 0 1

giving four possible combinations for each pixel displayed, or four colours.

On pre-AGA Amigas, the maximum number of colours is 32, or five bitplanes. More colours can be displayed using operating kludges such as HAM or extra-halfbrite. AGA Amigas such as the A1200 can use up to eight bitplanes, giving 256 possible colours.

Because the Amiga uses this way to display it's images, many files are saved in this format.



Bitplanes are best thought of as pages in memory - the first bit on each plane contains colour information for the first pixel, and so on.

Some paint packages try to imitate these natural painting modes and certainly have more than just a basic replace mode. This goes to extremes in the case of *OpalPaint*, the paint package bundled with the OpalVision 24-bit graphics card, which simulates not only oil and watercolours, but also chalk and many textured surfaces for painting on.

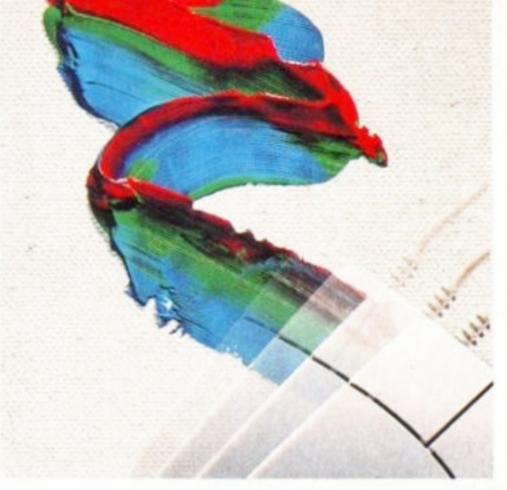
Perhaps more important for ease of use are some features that are unique to computer-based art, that is, custom brush handling. A custom brush, as already mentioned, is a group of pixels which has been copied from the main image. Even with a few simple controls, these brushes can be very useful.

In the sequence shown on page 31 we have drawn one (very rough) corner of a picture frame. That is all we need to draw, because the other corners are made up by cutting this corner as a brush and manipulating it to create the other corners.

A better way of automating your painted efforts is to use ARexx, the standard Amiga macro language. Unfortunately, very few Amiga paint packages support ARexx. One that does is RPaint from MegageM, but it only has basic painting tools.

Another feature you won't find on a normal paintbrush is text handling. When creating posters or flyers which only have a small amount of text, it is often more useful to place the text directly on the image rather than having to rely on a DTP package to do it later.

Text handling in paint packages has improved dramatically. Nowadays, all the main paint programs support the new Workbench scalable fonts, so there is no need to worry about what size your text is going to appear on screen – you can have any size you like. However, you can still use bitmap



fonts, which is useful because they are easy to find and are actually just as good for working with paint packages, provided they come in the size that you need.

Both *Deluxe Paint* and *Personal Paint* also support coloured fonts which are very useful for titling and general presentation work. These fonts are usually anti-aliased, which means that the pixel blocks are less noticeable in the display. Anti-aliasing can be performed by *Deluxe Paint* on all brush operations, which can cure the jaggie problems on all sorts of curved shapes.

WHY USE A PAINT PACKAGE?

So what is the point of a paint package? No computer set-up should be without one. They are an invaluable tool for generating graphics data of all types, from tables and diagrams to icons, titles for genlocking, animations and multimedia screens – when you think about it there are very few things on your Amiga you can do without using graphics. So why not create your own?

GET YOUR MASTERPIECE PRINTED

Sometimes a domestic printer is just not enough to provide the quality you need, but buying a high resolution colour printer is not really an option for most people. What you really need is to get it printed out by someone else.

There are print shops and bureaux around the country which make a living from outputting other people's work. Not all of them are Amiga literate, though – in fact, many of them have probably never heard of your favourite computer.

There are two solutions to this – either you can find a bureau which knows of the Amiga, or you can trick the ones that don't. Although your selected target may not have heard of the Amiga, they are bound to have heard of the IBM PC. This is your big opportunity to pull the wool over their eyes. If you have a version of Workbench with CrossDOS included, you can easily save your pictures on to a PC format disk. If you don't have WB2.1 or better, there are many PD utilities such as MessyDos which can do this for you. (See the Workbench Tutorial on page 160.)

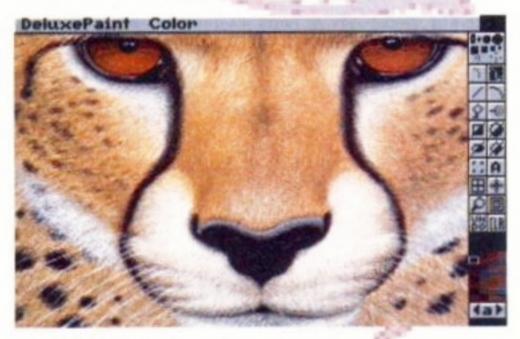
Find out what equipment the bureau has. If they are using Macintosh equipment, they can usually handle standard IFF files on a PC disk. If they use PC equipment, it would be better to save the file in a different format such as PICT or PCX.

Next month we will be starting a series of tutorials which will be equally useful to both *Personal Paint* and *Deluxe Paint* users. The series begins with the basics, but we'll soon have you creating masterpieces better than anything hung in the Norwegian National Gallery. Don't miss it!

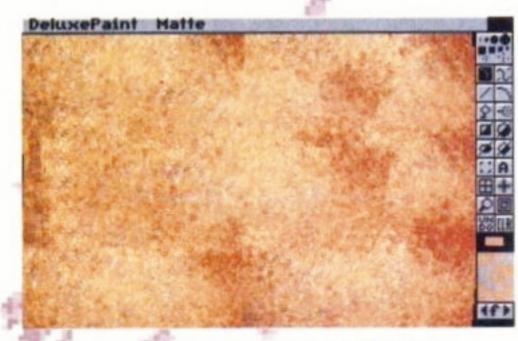
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DELUXE PAINT IV AGA

Deluxe Paint is probably the best known paint package on the Amiga, if not on any system. The reason for this could be that DPaint has been included in virtually every Amiga bundle – until now. This is a bit of a shame really, as DPaint has quite a few fea-



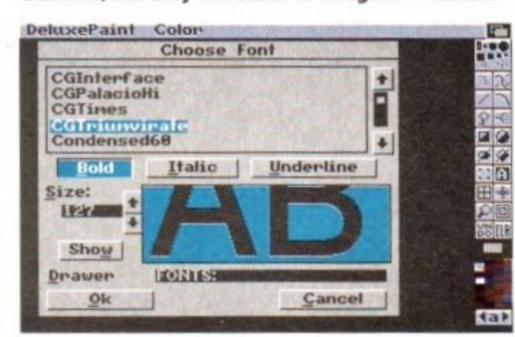
A stencil is a useful thing. Let us suppose that we want to add some nicely-coloured text to this picture of a cheetah.



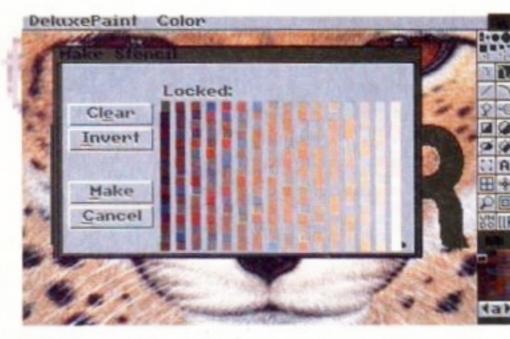
Flip back to the scratch page and create a colourful mess to fill your text with. Remember to use colours that are present in the image.

tures not found in any other art package. It has some of the best animation facilities and many painting modes such as smear, shade and smooth.

One thing that it does share with programs like PPaint is the stencil function. In high-end image compositing these stencils are known as alphachannels, but they are easier to imagine as stencils.



Press 'j' to get to the scratchpad area and leftclick on the text tool to bring up the font requester. We'll have a nice big one.

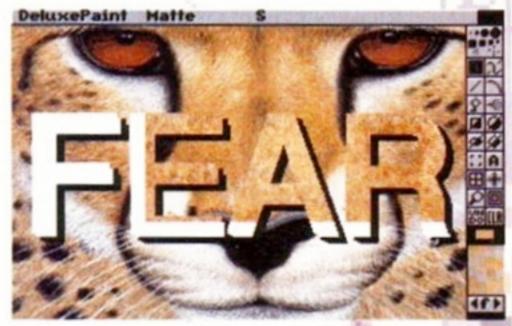


5 We want to mask out everything but white, so make a stencil where all the other colours are locked. This will protect the cheetah.

Stencils are masks which enable the artist to lock certain colours in the image to prevent them from being modified. This can be very useful when performing block pasting or drawing operations which may change a large area of the image. Here we will see how it makes it much easier to add multicoloured text to an image.



Picking up our text as a brush, we have gone back to the first page and placed it. A drop shadow would be nice, so we have placed it in black first. Use colour mode and paste it as white on top.

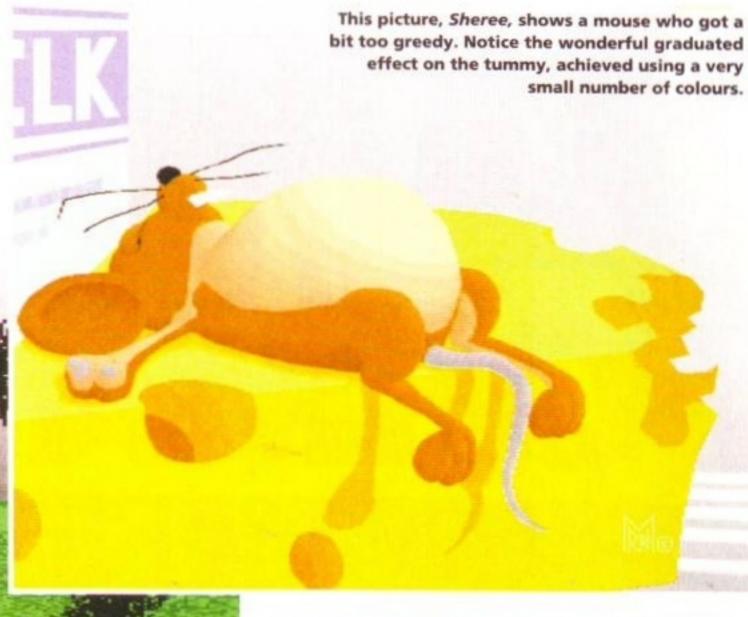


6 Now we can place our brush all over the text without fear of disturbing the nice picture.

To show you just what you can achieve, we'll finish with a showcase of the work of a talented New Zealand artist, Roger Entwhistle. Just look at what he's produced on his Amiga. Roger, we salute you...

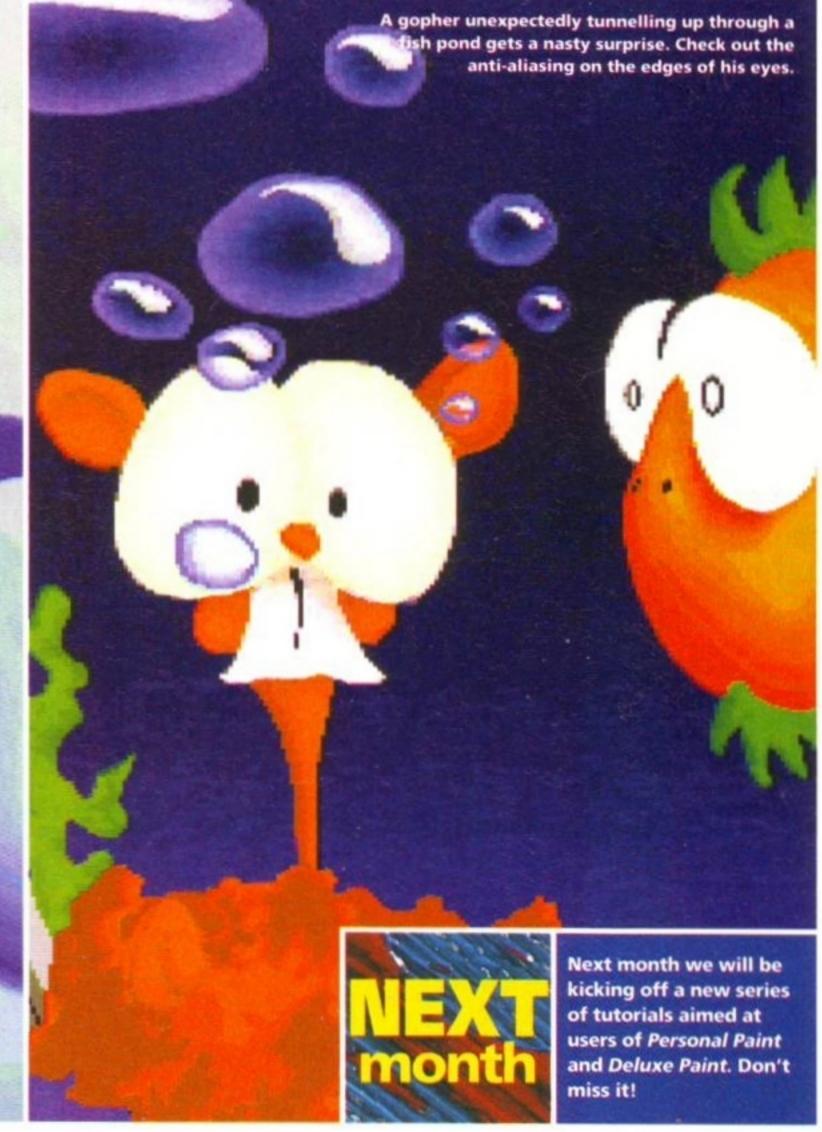
This astounding image shows that you don't need to stick to the dimensions of the screen. This image would take up several screens if displayed on an Amiga.





This is just a small selection of the sackloads of great artwork we receive here at *Amiga Format* every month. These images have all been generated in bitmap paint packages and there is no reason to suppose that you couldn't do the same with a bit of help, although the artist in this case is obviously very talented.

But with an Amiga, you don't have to have a steady hand and keen eyesight to create stunning works of art, as we shall be demonstrating in forthcoming issues.



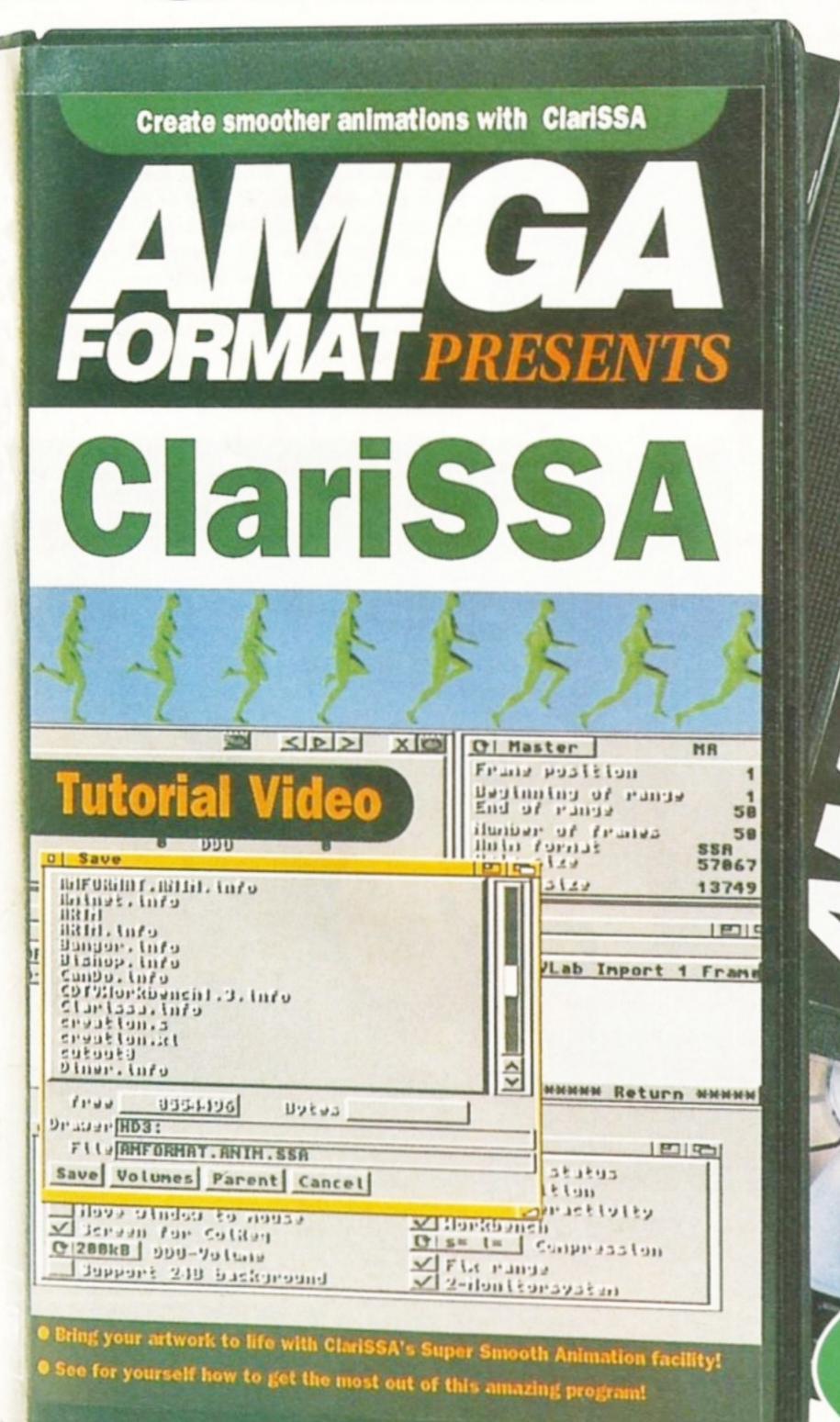


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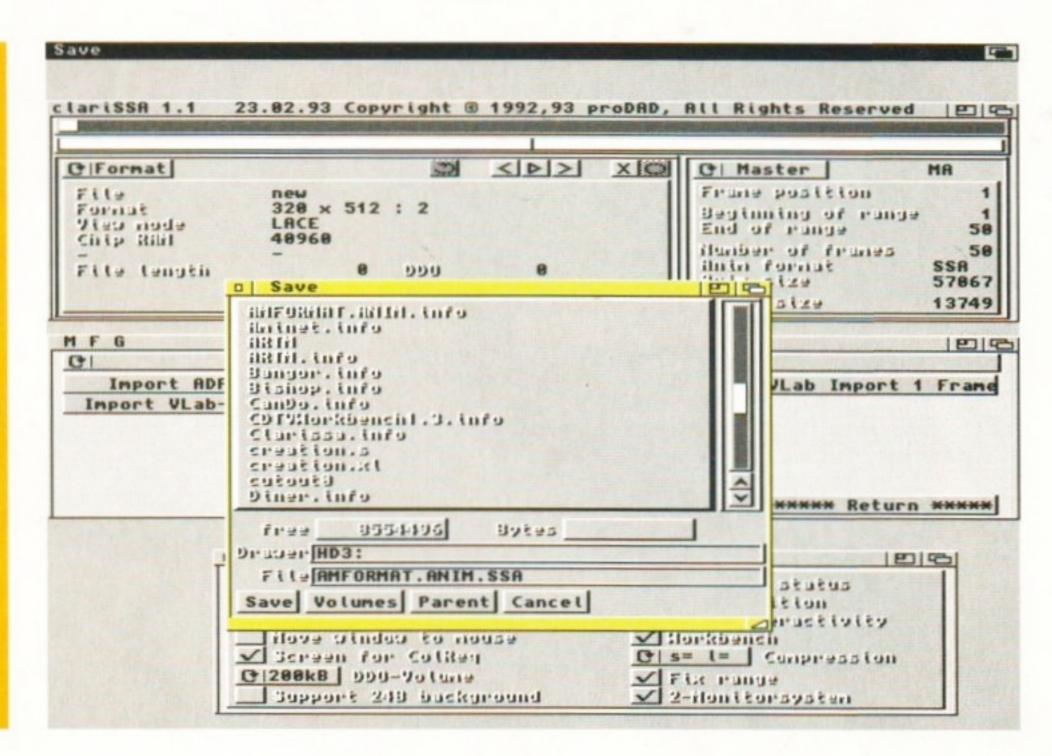


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Next month, Amiga Format brings you the power of ClariSSA – the Super Smooth Animation processor.

Of course, getting to grips with a complex package like this can be a real headache – what you need is expert guidance...

Claim your free video and let *Amiga Format* take you through *ClariSSA* step-by-step. The video, (which will be on general sale for £14.99 once *AF61* has sold out) will be available *free* only to *Amiga Format* readers – you only have to pay the price of postage and packing.

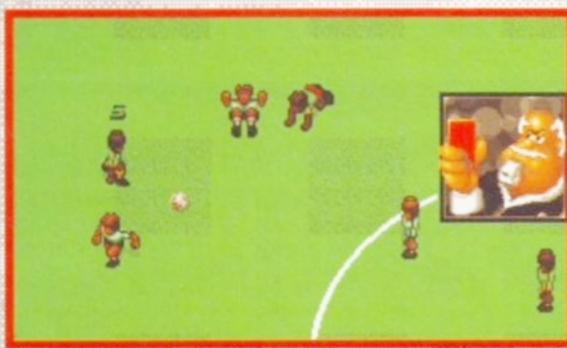
This video has been specially created to complement the *ClariSSA* Coverdisk, and has been produced with the help of the *Amiga Format* team. So you know it'll be good.

This is the first in a series of video guides commissioned and co-written by *Amiga Format*. See next issue for more details!

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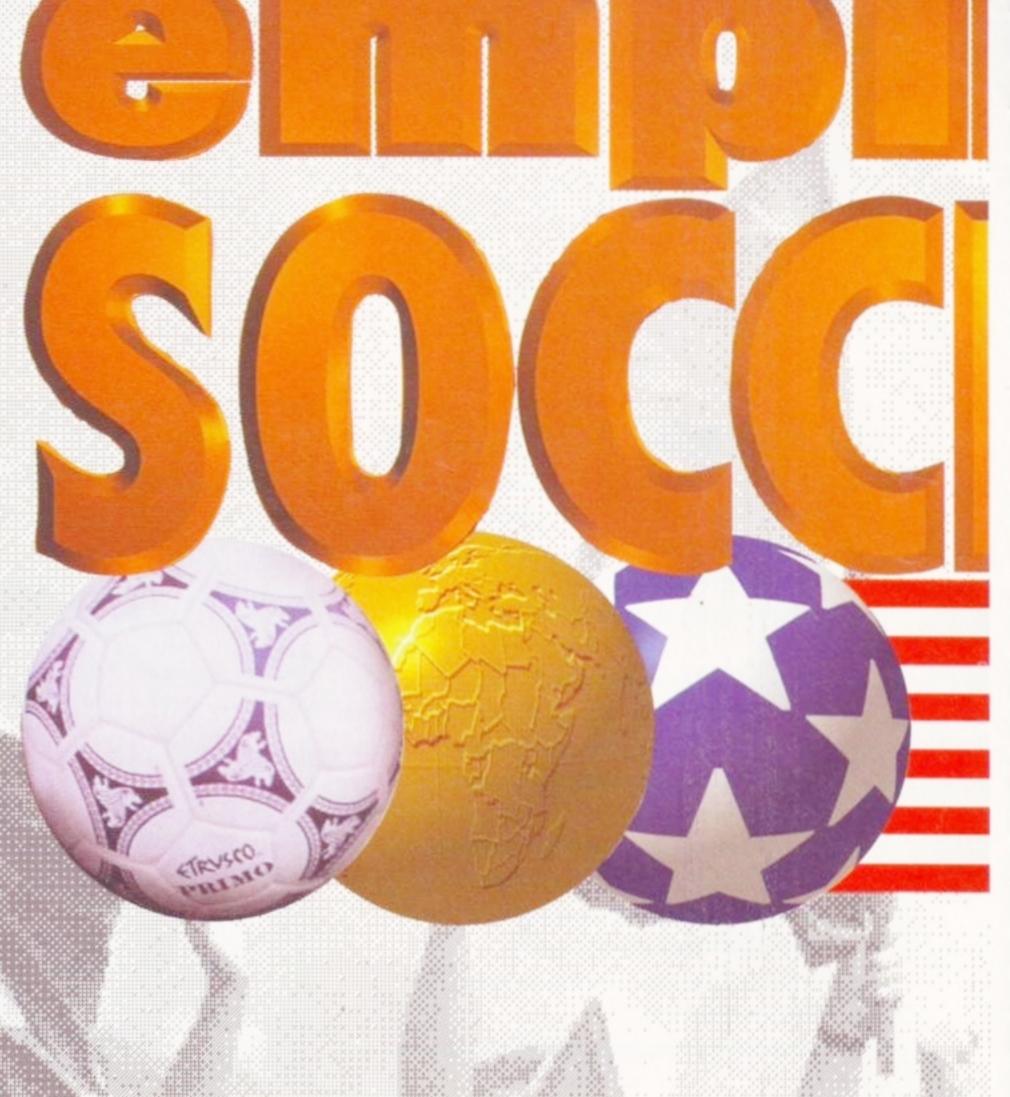




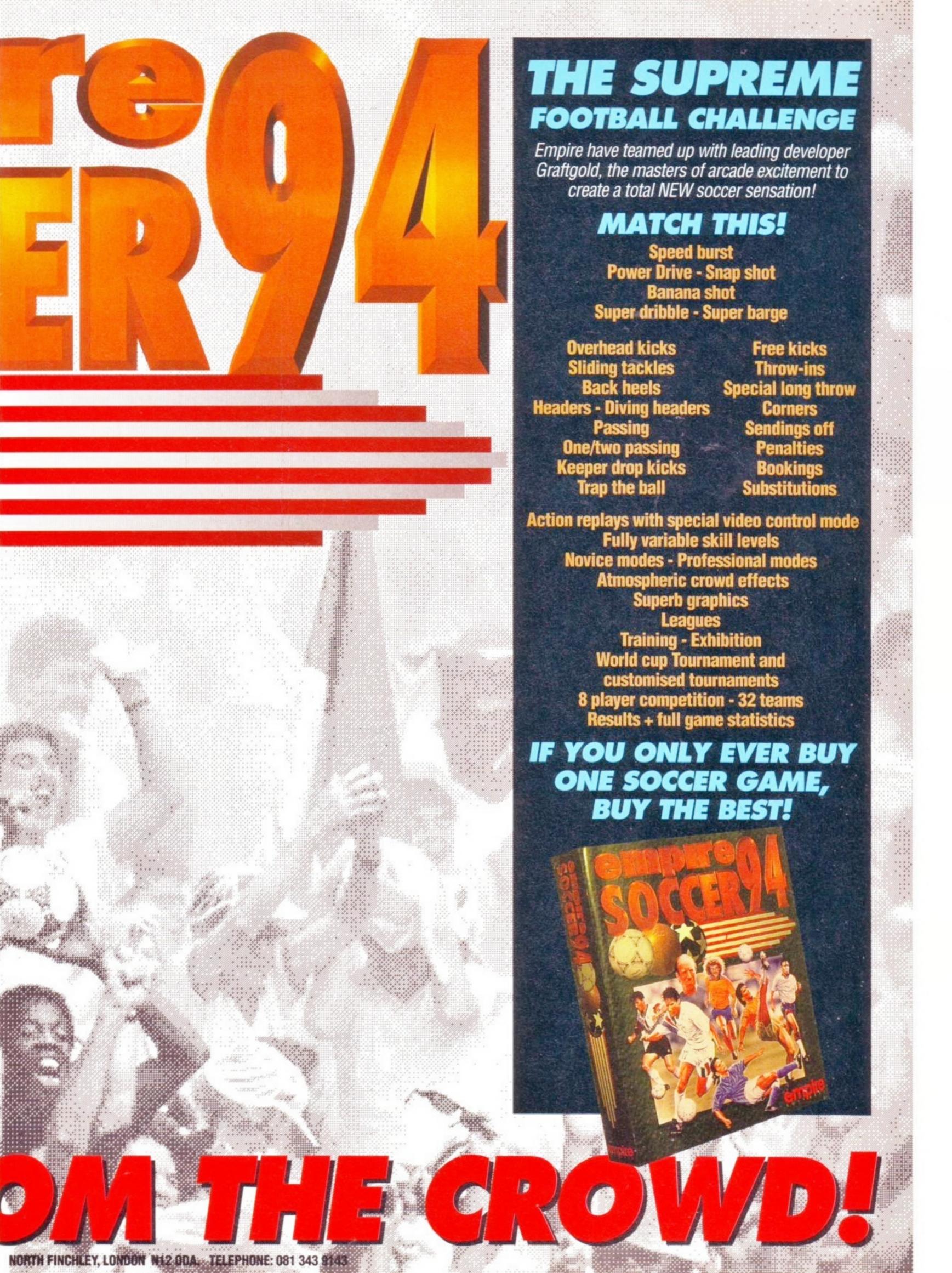




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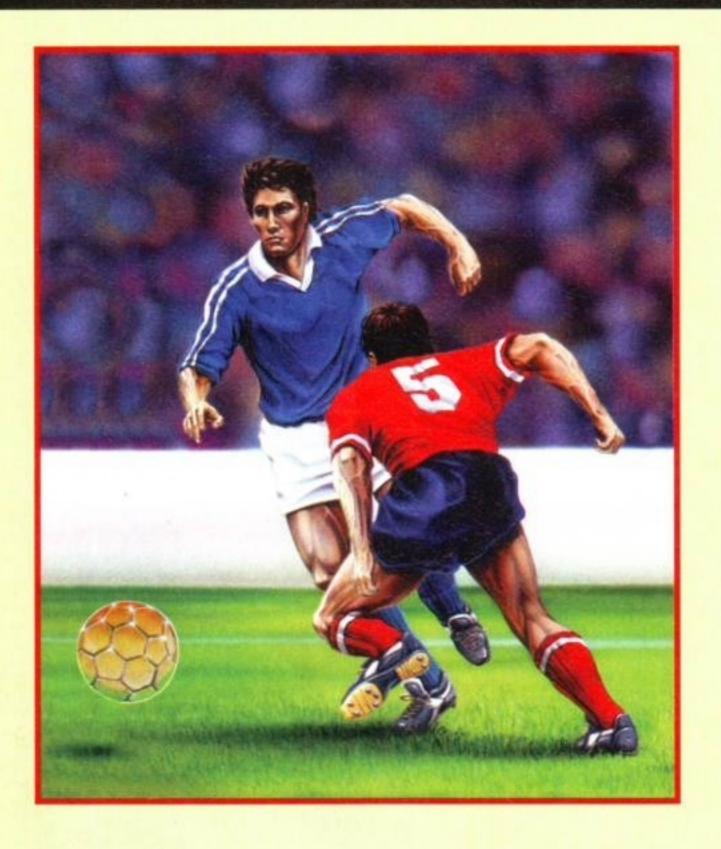
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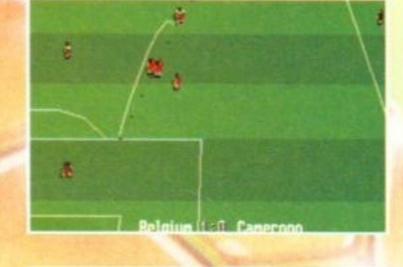
Base configuration:

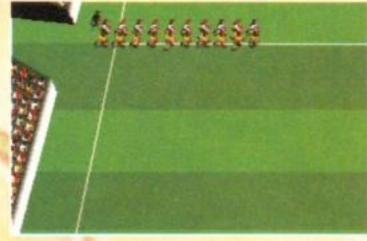
A500, 1 Mb of RAM
Compatible with all Amigas
including A500+, A600
Enhancements for A1200,
A3000 & A4000

«Frankly it looks excellent» - «It's shaping up to be a cracker» «In fact, Sierra Soccer could well turn out to be the dark horse of the season» - AMIGA ACTION

«An especially high level of artificial intelligence that really makes the players work like a team» -





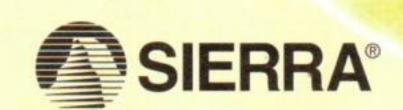












JOYSTICK

VIOLENT TIMES



You can't turn on the TV, read a newspaper or listen to the radio these days without finding some old wet blanket blaming the country's moral decline on excessive computer game violence. Games like Cannon Fodder, Syndicate and Mortal Kombat have certainly upped the on-screen 'urgh' content, but does it mean

you're going to turn into a deranged psychotic? Turn to page 48 to read our feature on violence in Amiga games.

Meanwhile we've been doing the rounds at the games industry's showcase, the ECTS, where we unearthed mouthwatering morsels aplenty including more details about Sensible World Of Soccer and the follow-up to Laser Squad - UFO: Enemy Unknown. Details are in Next Big Thing and Coming Attractions on pages 42-45.

The biggest game in this month's review section is undoubtedly Elfmania, Terramarque's much-vaunted beatem-up. Its combination of gorgeous graphics and superb playability makes it one of the best fighting games we've ever seen with only Ultimate Body Blows CD32 (also reviewed this issue) coming anywhere near. The Elfmania review begins on page 52. Also subject to our unstinting gaze is Sierra Soccer, a World Cup contender that fails to live up to its promise. Find out why on page 80. Finally turn to page 97 for part one of our Gamebustin' solution to Beneath A Steel Sky, Liberation: Captive 2 tips and more. Help is also at hand in, er, Helping Hand on page 101.

Rob Mead

REVIEWS

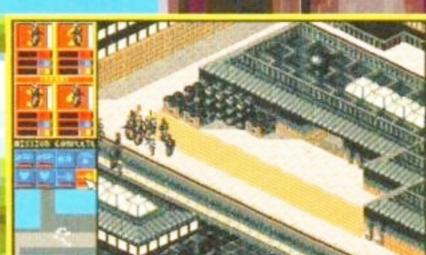
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Re-releases:

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them before they do it to you. P56



Wembley Rugby League Relive the excitement of the Regal Trophy in this gripping rugby sim. P64



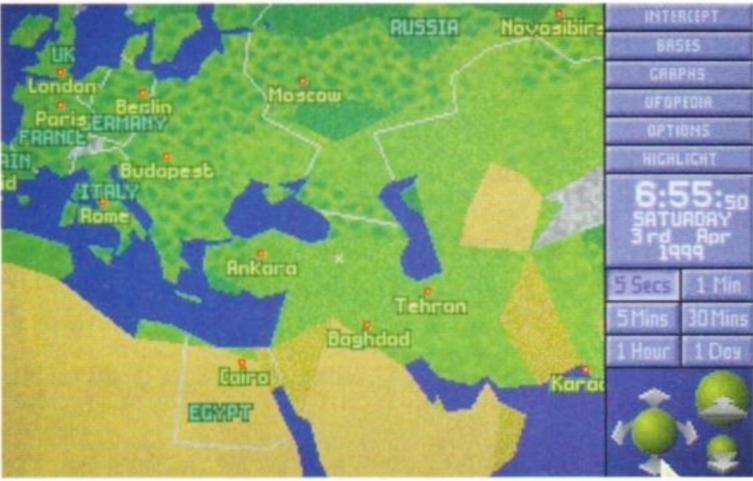
Join the elven hordes in their battle for glory in Terramarqu astounding beat-em-up. P



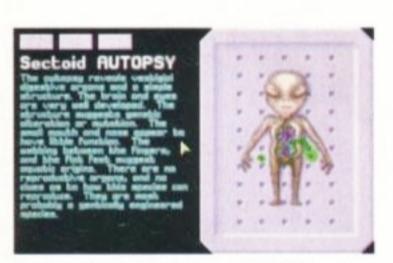


CLOSE ENCOUNTERS OF THE ALIEN KIND

What have the United Nations, laser squads and cigar-shaped UFOs got in common? They're all stars of a futuristic new adventure game from MicroProse as Rob Mead discovers.



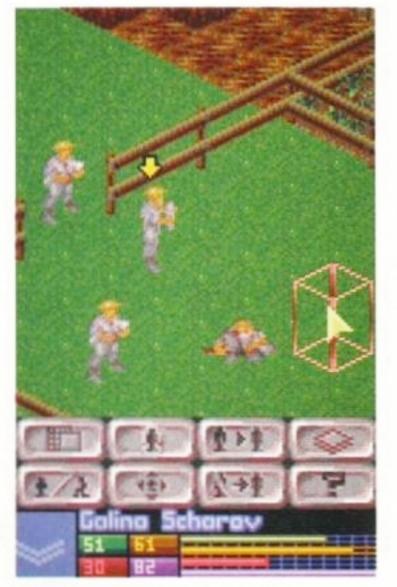
Because your squad is funded by the member countries of the United Nations, they all expect more than their fair share of protection from the alien hordes.



Captured aliens provide useful information about the physical strengths and weaknesses of their race.



This conventionally-powered Interceptor aircraft is your first line of defence.



The Laser Squad section of UFO sets you on a series of seek-and-destroy missions against the invading extra-terrestrials.

ong, ago in a galaxy far, far away, two guys called Nick and Julian Gollop released a game called Laser Squad on the Amiga. It was an instant classic. Amiga Format gave it a 93 per cent Gold rating and a whole new generation of game players were hooked.

Now, five years later, the Gollops have teamed up with strategy specialists MicroProse to bring you a greatly enhanced sequel.

UFO: Enemy Unknown takes the extremely addictive Laser Squad game concept and adds a novel twist. The original was essentially a top-down shoot-em-up featuring squads of tooled-up soldiers intent on blowing each other to smithereens.

Alien armada

MicroProse have worked closely with the game's original programmers, which shows in the improved arcade style and the introduction of a new strategy element based around an alien invasion of Earth.

The plot revolves around the world's governments, military and scientists trying to cover up the fact that our planet is visited daily by an armada of extra-terrestrial scout ships. As the alien activity increases, the United Nations panics into setting up a special task force to deal with the problem. You are the commander of that task force.

UFO: Enemy Unknown uses a point-and-click control system and is based on a fully-working model of the Earth, called a Geoscape, which features textured landscapes and a night/day cycle which plunges parts



One of your aircraft strikes a direct hit against an incoming UFO. Yowsa!

of the planet into darkness according to the hour. There's also a random mission generator so you'll never play the same game twice.

In the strategy section of the game you have to establish world-wide bases for your operations and try to juggle the defence needs of different countries while finding funding for weapons, research, workshops and so on. You also have to keep an eye on alien activity via a network of spy satellites so you can launch attack aircraft when particular countries are threatened.

Battle sequences

The Laser Squad section of the game arises when you deal with the survivors of the enemy UFOs you bring down. A squad of eight soldiers is sent to the crash site which is viewed in isometric perspective so buildings and vegetation take on a more solid 3D appearance.

The battle sequences operate a line-of-sight system which means your men can only shoot at targets they can actually see and your field of vision is limited as a result, which really ups the tension. To make things more complicated, each of your men has a limited number of action points which are used when they move or do something.

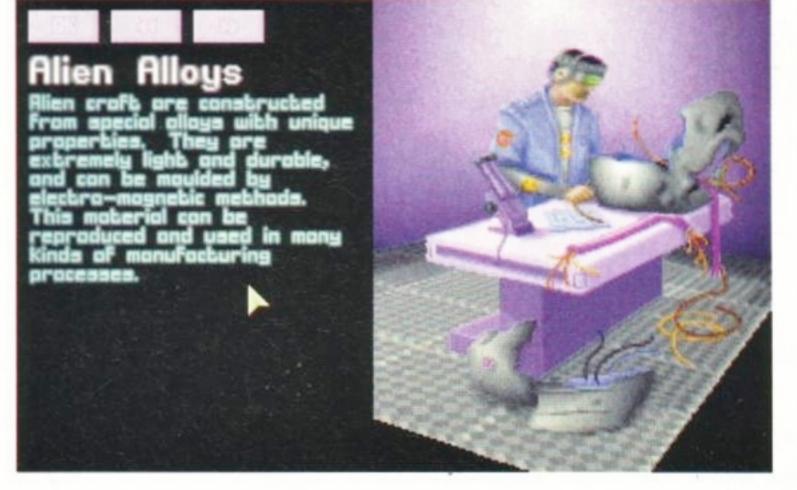
This means you can't just wade into a battle, but you have to work out what each of your men can do without placing themselves in danger. It all adds up to a frighteningly fraught and exciting experience.

• UFO: Enemy Unknown is released on June 8, priced £34.99. Contact MicroProse on 0454 326532.



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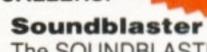
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GOMING AT

Rob Mead gives you the complete rundown of the big-name games that are coming your way soon...

STAY INFORMED!

Our up-to-the-minute listing of forthcoming releases

JUNE

Banshee AGA, CD³² **Big Sea** Cannon Fodder CD32 **D-Day** Darkseed CD³² **Dragonstone Detroit** Diggers CD³² **Dizzy CD Collection Empire Soccer** Formula One (prov title) Kick Off 3 Legacy Of Sorasil CD³² Man U Prem League CD32 Overlord/D-Day Soccer Kid CD³² **UFO: Enemy Unknown** Wembley Inter'l Rugby **Wild Cup Soccer** World Class Cricket CD³² World Cup USA '94

JULY

Cyberspace
Lords Of The Realm
Skeleton Krew AGA, CD³²
Top Gear 2 AGA
Universe

AUGUST

Alien Breed 2: Tower Assault
Bogart (prov title)
Champ Mgr Super League
Litil Divil
Seventh Sword of Mendor

Core Design **Krisalis** Virgin **Impressions** Cyberdreams **Core Design Impressions** Millennium Codemasters **Empire** Krisalis **Imagineer** Gremlin **Krisalis** Virgin **Krisalis MicroProse** Audiogenic

Empire Impressions Core Design Gremlin Core Design

Millennium

US Gold

Nothing to

Team 17 Grandslam Domark Gremlin Grandslam

Violent vertically-scrolling shooty game Patrician style medieval trading adventure Sensible's wonderfully addictive shoot-em-up Electronic re-enactment of the big invasion Graphic adventure with blood-curdling thrills **RPG** from the creators of Darkmere Build cars then sell them worldwide **Toby Simpson's neat puzzler** Eggy adventures from the ovoid superhero Graftgold cash in on the World Cup shenanigans Behind-the-scenes management racing sim All new version of acclaimed footy game Absorbing and atmospheric isometric RPG Licensed soccer action from Rotherham's finest Not a street party or spam fritter contest in sight Brilliant and colourful footy-related platformer Laser Squad meets Civilization in space epic Famous stadium in licence shock 11-a-side equivalent of Brutal Sports Football Timely second showing for great cricket game Arcade footy action with World Cup licence

Sci-fi adventure from creators of *Team Yankee*Medieval strategy game in *Kingmaker*-style

Space-age RPG in *Laser Squad*-style

Nothing to do with Jeremy Clarkson, apparently

Futuristic follow-up to *Curse Of Enchantia*

Special edition of frantic top-down shoot-em-up
Something about greenies called Humphrey
Latest instalment of footy management saga
Hilarious cartoon adventure about pizza
RPG with 71,000 locations

SENSIBLE WOR

ensible Software look set to achieve the impossible this Autumn when they release a completely new version of their highly-acclaimed footy game.

Sensible World Of Soccer retains all the playability of the original, but adds a host of new features, including a full management simulation. Most startling is the inclusion of over 1,400 football teams from every league in every country around

the world, each with accurate player stats, kit and monetary values. With a total of 22,000 players, the game features an international transfer market so you can poach footy aces from Brazil and stick them in your own Sunday Leagues, created from the DIY League Editor.

The inclusion of managerial aspects enables you to play the game on three different levels: purely as a manager, purely as a player or



Dinomania looks set to erupt all over again when Cryo's prehistoric adventure Lost Eden arrives on CD³² later in the year.



Sensible Golf takes the Cannon Fodder game engine and applies it to Jimmy Tarbuck's trouser aerobics on the putting green.

BRING OUT THE BRANSON

Virgin Interactive have announced an impressive range of Amiga and CD³² games for release later in the year. Most impressive is *Lost Eden* CD³² from French programmers Cryo, the masterminds behind graphic adventure *KGB* (*AF42*, FG91%). *Lost Eden* takes you back to a dim and distant past when dinosaurs ruled the earth. Man has tamed the herbivores, but is engaged in a struggle for survival against the meat-eaters led by the fearsome T-Rex. To defeat the carnivores you have to rediscover the secrets of construction and build giant citadels to protect your people.

Lost Eden mixes strategy and adventure elements with gorgeously rendered 3D dinosaurs and exotic locations to discover. The game should be released in the UK in November. The price has yet to be announced.

Virgin have also snapped up the rights to Disney classics *Jungle Book* and *Aladdin*. Both games feature all your favourite characters and locations from the films, appropriate soundtracks and a unique dual-contour system which enables characters to interact with platforms in both background and foreground. Both games should be available for AGA machines only in November.

Finally, those hard-working chaps at Sensible Software are applying the same game engine found in their previous Amiga outings to a golf simulation. Sensible Golf places you in control of four little chaps, each with their own personality, who wander around a series of courses potting balls and getting stuck in bunkers.

The Sensibles have included all the world's major and a fair few minor golf tournaments, bags of humour and a whole caddy-full of surprises. Sensible Golf will also be available in November. For more details about any of the above games, phone Virgin on 081-960 2255.

KARTOON RACER

Grandslam aim to show Nintendo a thing or two with a racing game to rival the Japanese firm's Super Mario Kart.

Bump 'n' Bum is a cutesy race game set in the world of Toonia where, once a decade, eight top drivers get to show off their skills across seven different lands, including the Haunted Forest, War City, Polar Zone and Future World. Unlike Nigel Mansell, these guys stop at nothing to ensure they reach the chequered flag first, so you can have plenty of fun putting all kinds of obstacles in your opponents' path.

Available for all Amigas, including CD³², Bump 'n' Bum looks incredibly slick and features a split-screen two-player mode, 16 different tracks, secret levels and a wide variety of wacky weapons. For more information about the game which should be released shortly, price £25.99, phone Grandslam on 081-680 7044.

Forget Nigel Mansell and those pathetic Indy Races, get to grips with Grandslam's frantic Bump 'n' Burn instead.



TRACTIONS

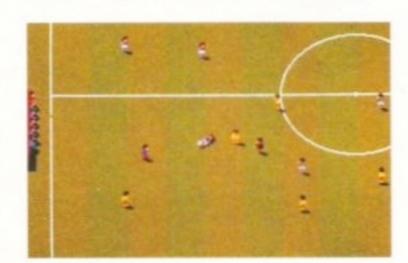
LD OF SOCCER

as a fully-fledged player-manager. However, if you're into customising and remortaging stadia, forget it. The Sensible's have wisely only included those management aspects which are crucial to the conduct of the match.

Other neat touches included in the game for the first time are referee and physio sprites as well as international sampled crowd chants for added realism.

Sensible World Of Soccer goes on sale in September, price £25.99. If you can't wait that long, Renegade are also releasing Sensible Soccer International Edition very soon, priced £19.99, which features all the teams and players taking part in this year's World Cup.

If you already own a copy of the original Sensible Soccer you can upgrade for a mere £8. Watch this space for further details.



Buster Bloodvessel writhes in agony after a brutal and deliberate foul by Thora Hird in the climactic final of Sensible World Of Soccer.

| PSV | | NETHERLE | WIDS |
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You can manage any team from any league and from any country in the world, just don't forget to send their kit off to the launderette.

LAWNMOWER WAR

There's still no sign of the Amiga version of Lawnmower Man, even though the sequel Cyberwar is set to be released on the CD³² in October.

In the original adventure gardener
Jobe is turned into a psychopathic electronic monster by an ill-fated
experiment conducted by scientist Dr
Angelo. Naturally Jobe's more than a
bit ticked off by this and pulls Dr
Angelo into Virtual Reality with him to
battle it out for eternity.

In Cyberwar Dr Angelo again pits his wits against the mighty Cyberjobe and also has to fight it out against the VSI mainframe computer's awesome weapons system.

The game features loads of stunning visuals – many of them taken from the Lawnmower Man film itself – there are oodles of 3D raytraced graphics and level after level of puzzles, traps and fearsome opponents.

For more information about Cyberwar contact Cyberdreams on 071-585 3308.



Cyberwar features fantastic graphics, many of which are from the Lawnmower Man film.



Lawnmower Man may not be released on the Amiga, but Cyberwar is due on CD³² in October.

TALKING VULCAN



Is speech adventure Valhalla the future of Amiga gaming, or just another gimmick in search of some decent gameplay? We'll let you know.

x-students Lisa Tunnah and
Paul Hale Carrington have
purged themselves of dodgy
haircuts and yard-of-ale contests and
are launching themselves into the
Amiga games scene instead.

The pair's first project is a topdown 'speech adventure' called Valhalla And The Lords Of Infinity and is going to released through their own publishing company, Vulcan Software. What immediately makes this different from most other adventure games is the extended use of speech samples. Five of the game's seven disks are filled with them and the character you control throughout the game tells you about the objects he sees and how he feels about the things you make him do.

It's all very cutesy and the straightforward controls make the game easy to get to grips with.

Valhalla is released soon, price £29.95. More details from Vulcan Software on 0705 670269.

RUFF 'N' READY

Programmers Wunderkind have teamed up with top publishers Renegade to bring an exciting new platform shoot-em-up to the Amiga. Ruff 'n' Tumble centres around the heroic figure of Ruff Rogers who's sucked into a weird fantasy world run by the evil Dr Destiny and his Tinhead Army. You have to help Ruff defeat Dr Destiny by guiding him around four worlds and 16 massive levels. Ruff comes equipped with six different

weapons, and there are plenty of power-ups to pick up on the way.

As well as A500 and A600 versions, Wunderkind are promising an AGA incarnation with enhanced 256-colour graphics and extra bonus levels. There will also be a CD³² version featuring Dolby Surround Sound which offers realistic cinema-style music and sound effects when used with a Pro-Logic system.

Ruff 'n' Tumble is released in July. You can find out more from Renegade on 071-481 9214.



Cutesy gun-totin' hero Ruff Rogers takes on the might of the Tinhead Army in Ruff 'n' Tumble.

JUNGLE FEVER

It's been knocking around Renegade's release schedule for ages, but Antipodean graphic adventure *Flight Of The Amazon Queen* finally looks set to arrive on the Amiga in November. Intended as a pastiche of Forties adventure serials, *Amazon Queen* follows the fortunes of pilot Joe King whose task is to deliver film starlet Faye Russell to the set of her latest movie.

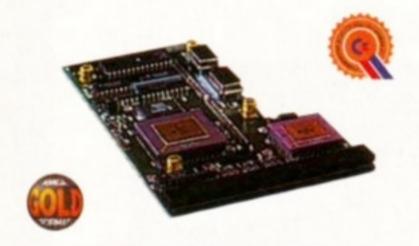
Disaster strikes when Joe gets locked into his hotel room by his arch rival Anderson, and then his plane is struck by lightning and crashes into the middle of the Jungle. Cue guffaws galore as Joe encounters zealous missionaries, Amazon women and a nutty professor who plans to take over the world.

If the preview at the European Computer Trade Show is anything to go by, this is going to be a real stormer. More details from Renegade on 071-481 9214.



Helga and Karl were mortified. The American tourists had caught them in their lederhosen and summoned the fashion police.





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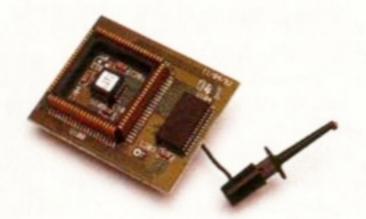
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S C S 1 - 2

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A.F

STOP! YOURE KILLING ME

Blood, guts and destruction are an increasingly common sight in Amiga games. Rob Mead lifts the lid on a gory phenomenon.

mpire's DreamWeb is the latest in a long line of increasingly violent games vying for your attention. Over the past year games such as Syndicate, Cannon Fodder and Mortal Kombat have taken the level of graphical savagery to new heights (or should that be depths?) of slickness and sickness. Is this a desperate attempt by programmers to give their software some degree of novelty or notoriety? Or are they trying to see how far they can push the boundaries of taste?

More importantly, with parental and Governmental concern about computer game content reaching fever pitch, can seeing people spill their guts all over the screen be justified? Until recently the majority of so-called violent games featured nothing more than a few explosions and cute baddies disappearing into thin air. Now you see the objects of your aggression being burned, butchered and decapitated. It's all a far cry from Pong.

According to DreamWeb programmers, Neil Dodwell and David Dew, the 'gore' content of their sci-fi adventure is an integral part of the game's overall atmosphere. "It's part of a dark and disturbing mood aimed primarily at an older audience," they say. DreamWeb's hero, Ryan, has to track down and kill the seven people whose actions are throwing the world of the DreamWeb out of sync.



It's grisly death scenes like this one from *Mortal Kombat* which have caused parents, MPs and media pressure groups to get all uppity about the content of computer games.

The result is a game packed with tension, a smattering of sex and plenty of violence. The demo on this month's Coverdisk, for example, sees a hired thug subjected to a bit of open-heart surgery from Ryan's well-directed axe. Due to the game's controversial nature, publishers Empire Software expect it to receive at least a 15-17 rating from ELSPA's game classification system.

Addicted to violence

Possibly one of the best examples of ultra-violence in Amiga games is Bullfrog's Syndicate. The natural successor to godgames like Power Monger and Populous 2, Syndicate places you in control of a small squad of agents sent on a series of increasingly suicidal missions against insuperable odds.

Not only is the game concept original and extremely addictive, but the violence is highly realistic – ruby red pixels of blood spurt everywhere as enemy agents, police and civilians fall under a hail of bullets from your guns. As you develop more sophisticated weaponry, the ways of dying become more elaborate and gruesome – use a Gauss gun on a squad of innocent bystanders and you're greeted with a huge

explosion and the nauseous sight of people running around in a fireball, screaming in agony. Things get so gory you find yourself muttering "Oh my god!" under your breath when you realise the enormity of what you've done.

Why such realism? "We made Syndicate high in gore, to be more realistic," says Peter Molyneux, MD of Bullfrog.
"I know this sounds like a copout, but it's the player who's violent, not us.

"All we've done is give a loaded weapon to the player and it's up to them how to use it... I've always hated games that gloss over violence. Surely showing realism of a violent act is better than discussing it? It's not that Syndicate has done anything new with violence, it's just that it shows it like it is."

Early versions of the game also featured babies and animals being brutally butchered, but Bullfrog's game testers objected so strongly that Peter was forced to remove the offending sprites. "They told us we were going too far, funnily enough they objected most to killing the puppies."

Despite this, Peter doesn't actually think *Syndicate* is that



A rock star's indulgence in the joys of womanhood (ahem) is abruptly brought to an end by an assassin in *DreamWeb*.

Fighter II. "Making things graphically explicit does not make them violent, with the exception of Mortal Kombat. I think Street Fighter II is the most violent game around now. It has little blood in it, but I feel violent after playing it for a while. If a game starts to affect behaviour, then it's getting bad."

Horrible ways to die

No such worries for Sensible Software's Format Gold winning wargame Cannon Fodder. Like Syndicate, Cannon Fodder places you in control of a small group of men who have to complete a series of complex missions. The tiny soldier sprites are cute rather than realistic, but they still die in excruciatingly horrible ways. For example, when they're wounded they wriggle around clutching their blood-splattered remains until you put them out of their misery.

Sensible's product manager
Martyn Lunn justifies such scenes
by arguing that Cannon Fodder
is basically an anti-war game.
"We don't want to encourage
people to think blood and guts
are good," he says. "If you read
the back of the game's instruction manual, it says'... don't try
this at home kids, because war –
as Cannon Fodder demonstrates
in its own quirky little way – is a
senseless waste of human
resources and lives.'"



Syndicate, the most realistically violent game of all. Your victims crumple into pools of blood when you shoot them, or they scream horribly as they burn to death.

You soon realise what
Martyn means as a forest of
gravestones marking the deaths
of your men spread across the
hills above the battlefield. Like
Peter Molyneux, Martyn singles
out beat-em-ups as the worst
offenders of gratuitous violence.
"I've got better things to do
with my life than just try to
punch another sprite around,"
he says dismissively.

Blood and gore

The most controversially violent game of all has to be Mortal Kombat. The game's band of ruthless street fighters all have special death moves which enable them to shred their opponents in a variety of gruesome ways – characters have their spines ripped out or their still-beating hearts pulled from their chests. Some even lose their heads all together.

The sight of all that blood and gore is enough to turn anyone's stomach, but what really makes Mortal Kombat different from other beat-em-ups is its use of digitised sprites, giving the game a whole new degree of realism. Disappointingly, the gore and use of digitised sprites seems to have been included to disguise the lack of gameplay – the Amiga version is simply a very good conversion of a decidedly average game.

While developers like
Bullfrog, Probe and Sensible
attempt to inject more realism
into computer game violence,
German publishers Blue Byte are
actively investigating its effects in
conjunction with their country's
leading universities. Inevitably,

the Second World War casts a long shadow over the Germans' attitude to violence and Blue Byte are sensitive to the depiction of it. In *The Settlers*, for example, the fight sequences are cartoon-like and the battling knights slink off when they're defeated. No-one dies.

Blue Byte MD, Thomas
Hertzler, explains: "We don't
think it's very responsible to
make games more and more
violent... six-year-old kids
shouldn't play those 'street killer'
games. The danger of being
influenced by these games is too
high. Unlike adults, children
aren't able to tell the difference
between reality outdoors and the
reality on the screen."

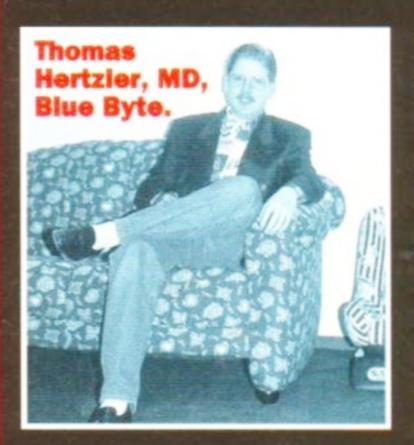
A taste of real life

So what's the answer? Thomas believes removing violence from computer games isn't the way. "Nobody can deny the daily violence around us and we have to cope with it," he says. "Banning violence from games would be equal to a kind of censorship. But bathing in blood cannot be the way to give our youth a taste of real life."

The future doesn't look set to change, however. Core Design's forthcoming AGA shoot-em-up Banshee features another rash of red pixels exploding from people's heads. The game's programmers have also included a secret level featuring women, babies and bears who're dying for you to smash their brittle bones to pieces with your aircraft cannon. Whatever you think about game violence, it looks like it's here to stay.

LOVE, PEACE AND HARMONY? MAYBE IN THE NEXT WORLD...

We asked three leading lights in the games industry what they thought about pixellated violence and its effects on society.

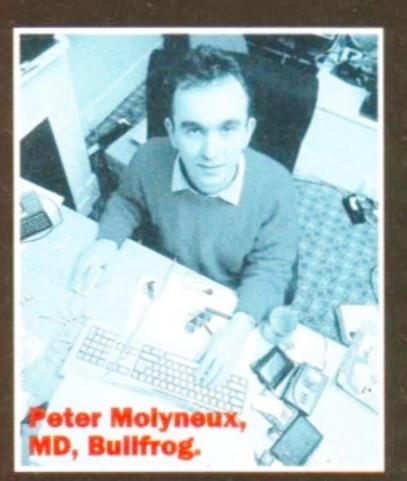


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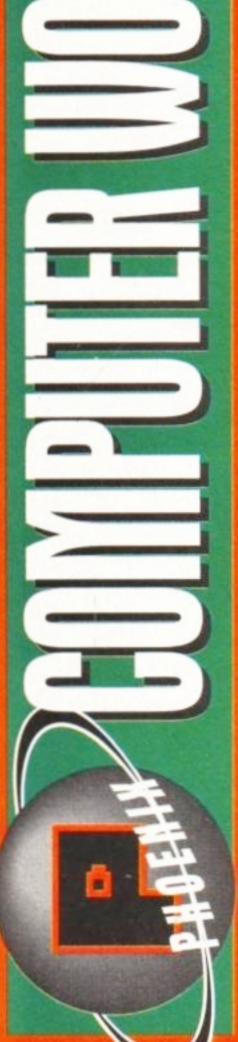


"We don't really want to encourage people to think blood and guts are good. If you read the back of the Cannon Fodder instruction manual, it says '...don't try this at home kids, because war – as Cannon Fodder demonstrates in its own quirky little way – is a senseless waste of human resources and lives."



"We decided to make Syndicate high in gore, to be more realistic. I know this sounds like a cop out, but it's the player who's violent, not us. All we've done is give a loaded

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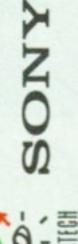
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Can Renegade's beat-em-up really be better than Body Blows, slicker than Street Fighter and more playable than Mortal Kombat? Rob Mead puts on his fighting trousers and heads for the streets of Elf City...

ou can imagine the scene, can't you? There are these two elves in the pub and one says: "Are you looking at my ears?" "Yeah," says the other. "They're stupid and pointy." The first elf pulls himself up to his full 3ft 6-inch height and says: "Are you calling my ears stupid and pointy?" "Yeah," says the second, "and you're deaf and ugly as well."

All hell breaks loose - tables are overturned, chairs are smashed and pudgy limbs are ripped from green jerkined bodies. It's how wars are started in some places, y'know. And it's how wars are resolved in the mythical land of Muhmulandia.

The storyline goes something like this: the plucky king of Muhmulandia is the subject of constant challenges to his authority thanks to a set arcane magical laws. This means that whoever can defeat the king or his chosen champion in an Honour Fight can become the new ruler of the elven kingdom.

As an added incentive, the challenger also stands to win the Dragon Fan, a mystical object which bestows the secrets of the universe upon its owner.

Muhmulandia consists of six regions - castle, pirate harbour, dungeon, waterfall, king's hall and ice village - each one occupied by a different champion fighter (see the Float Like A Butterfly box above, right). The six regions are further divided into 36 counties or squares.

It's a knockout

You have to challenge the king of Muhmulandia by conquering six counties in a vertical, horizontal or diagonal line across the kingdom. You do this by hiring a series of fighters who have to take on the King's champions in a series of six knockout bouts. You only have one chance to win - defeat in an honour fight at any stage means you have to begin your challenge again.

Because your success or failure in Elfmania depends entirely on

your ability to

hire



2PU 201250

Janika's just as tough as she is

beautiful. Here is she is battling it

out at the waterfalls with Tenko.

FLOATS LIKE A BUTTERFLY, STINGS LIKE A BEE

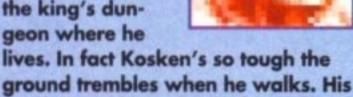
Elfmania's motley collection of six fist-fighting supremos are all highly skilled with different motives and moves. Here's the lowdown...

JANIKA THE PIRATE ELF Elfmania's token girlie Janika is a fast, supple fighter whose abilities should not be under-



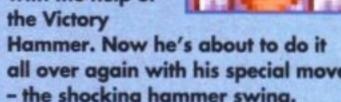
estimated. Raised among cut-throat pirates, her special move is the devastating spinning middle kick.

KOSKEN THE **EXECUTIONER** Kosken's bulk makes him a formidable opponent in or out of the king's dungeon where he



special move is a deadly high punch.

MATIKI THE FAT KING Lard monster Matiki has already conquered Elfworld with the help of



all over again with his special move - the shocking hammer swing.



SEVEN THE GUARDIAN This turbanheaded warrior is the king's guard and he's equipped with an enormous

bendy sword. Mmmm. His special move is a 360-degree spin for slicing opponents in two.



TAIKI THE ICE ELF What looks like a noncy feather boa around Taiki's shoulders is actually a snug

sheepskin coat for those chilly nights in the Elf Mountains. Taiki's special move is a spinning jump kick.



TENKO THE **FOREST ELF** This mohicanhaired chap spends all his time in the woods and smells of damp

leaves and badger urine. A good all-rounder, his special ability is the spinning high kick.

bigger and better fighters, it comes as no surprise to learn that the whole game centres around your ability to make money.

At the start of the game you only have 75 coins to spend – unless you're in two-player mode - and your fighter's energy levels during combat are directly linked to how much money is shaken out of him during combat. This means you lose money when you do badly and

make money when you do well, since your opponent also keeps dropping readies every time you deliver a well-aimed thump. The other way to make money is by converting the prizes heaped on the victor at the end of the bout and by fighting in as many counties as you can before you start on your crownchasing line of six. It's as tough as it is simple.

There's no doubt about it. Play Elfmania for a few hours solo and

> you'll be hooked. Play it for a few weeks with a pal you'll want to emi-

Royal personage Matiki receives a resounding cheer from the members of his court as Tenko beats an undignified retreat.

grate to Finland and get a job in the Helsinki branch of Iceland just so you can stand like a groupie outside the programmers' door.

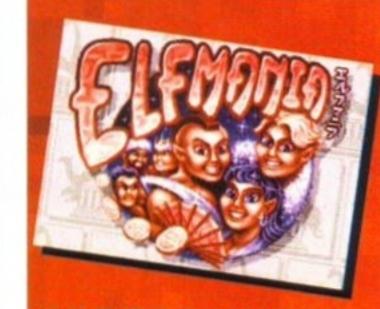
Simply the best

Elfmania is brilliant and it knows it. The graphics smack you round the face with their loveliness, the controls knee you in the nether regions with their slickness and there's enough long-term playability here to go 12 rounds with Lennox Lewis and come out smiling.

For too long we've put up with shoddy beat-em-ups with dodgy sprite routines, abysmal joystick controls and a bit of titillating gore. Only Team 17's Body Blows series has offered anything like the playability we deserve. No longer. Elfmania is the best Amiga beat-em-up yet.

Rob Mead 5

ELFMANIA



PROGRAMMERS Terramarque

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GRAPHICS

1 2 3 4 5 6 7 8 9 10

Breathtaking. The cutely animated spites are huge and the backgrounds are gorgeous.

SOUND

1 2 3 4 5 6 7 8 9 10

Each character has speech samples, whoops and grunts. You can't turn off the music.

ADDICTION

1 2 3 4 5 6 7 8 9 10

Really comes alive when you're playing against a pal. Non-stop in-yer-face fun.

PLAYABILITY

1 2 3 4 5 6 7 8 9 10

No championship or tag-team modes, but there are 36 different bouts and simple controls.

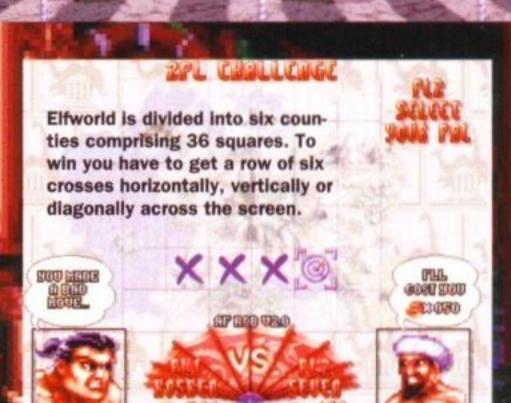
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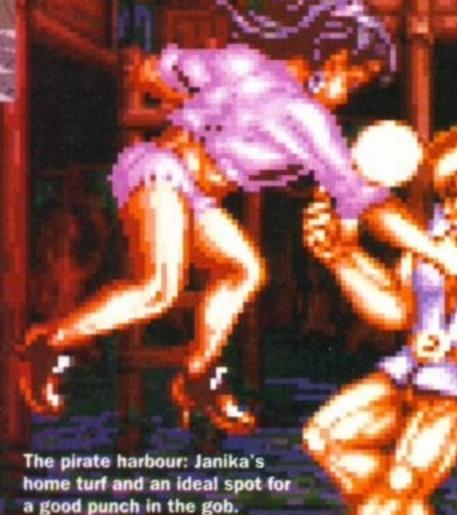
* Elfm មហ្វី១ ទែក ចូបថ្ងៃ simply, ម៉ាង ២៩៩ beat-empo ever to be released on the Amigus comy right not

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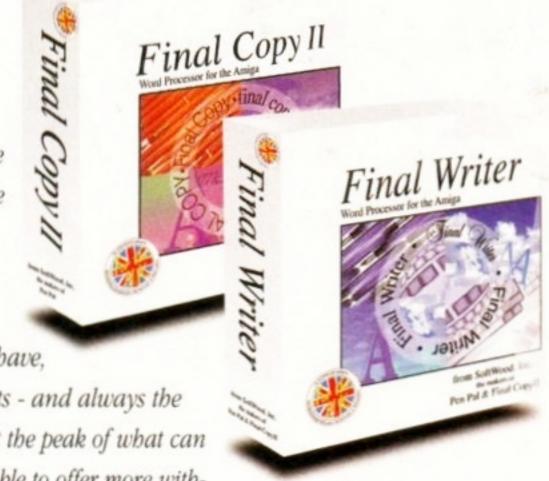
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out losing performance. Final Writer is the first and only hard drive compulsory Amiga word processor; the only package that doesn't make compromises to be floppy compatible!



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"What the Papers Say...

Amiga Pro... "In comparison (to Wordworth 3), Final Writer 2 is slick, solid and reliable and... is a damn site more usable" Amiga Format... "Final Writer is a joy to use" Amiga Shopper... "Final Writer is the closest thing to MS Word to appear on the Amiga" Amiga Computing... Final Copy II was voted by the readers as "Best DTP Package" Amiga Format... "Final Writer is a word processing package the Amiga community as a whole can be proud of "Amiga Format... Final Copy II is "The Best Word Publisher" Amiga User International... Final Writer is "a powerful program that produces excellent results" Amiga Computing... Final Writer is "easily the most configurable Amiga WP ever" CU Amiga... Final Writer is the "most powerful WP ever to grace the Amiga" Amiga Format... "Td go for Final Writer over Wordworth (3)"

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Final Copy II Release 2

Our word processors go beyond simply producing normal letters and documents, at which they naturally excel, and progress into a world where "how the whole document



"what it says". Admittedly, this can be achieved with Desk Top Publishers - but they're not so easily used as word processors, especially when a good looking

letter needs creating quickly - they're far too cumbersome.

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be printed over graphics! It's features like these that explain why some professional magazines, with 200+ pages, are produced entirely with *Final Copy III*.

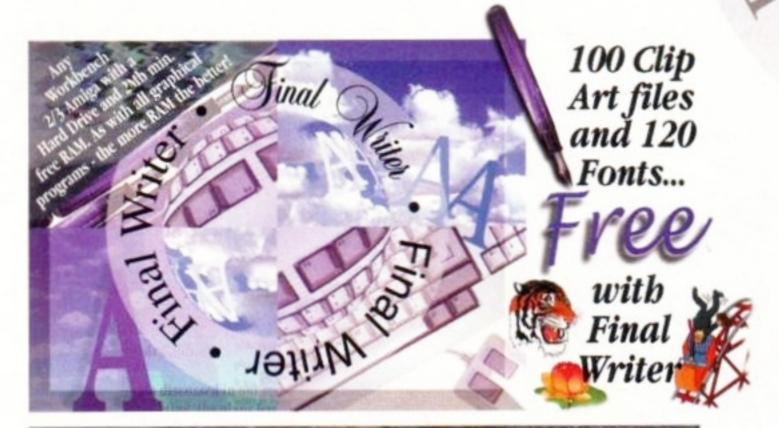
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tions are nothing less than remarkable! Indeed, a magazine heralded these as "the closest thing to Microsoft Word to appear on the Amiga"! Also uniquely, *Final Writer* can import, scale, crop, view on screen and output structured PostScript-EPS clip-art images (we supply a hundred free with the package) on *any* printer (>2mb required). And... if you own a PostScript printer *Final Writer* is the only word processor with scaling, thumbnails, crop marks and halftoning.

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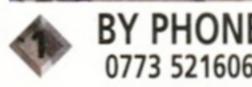
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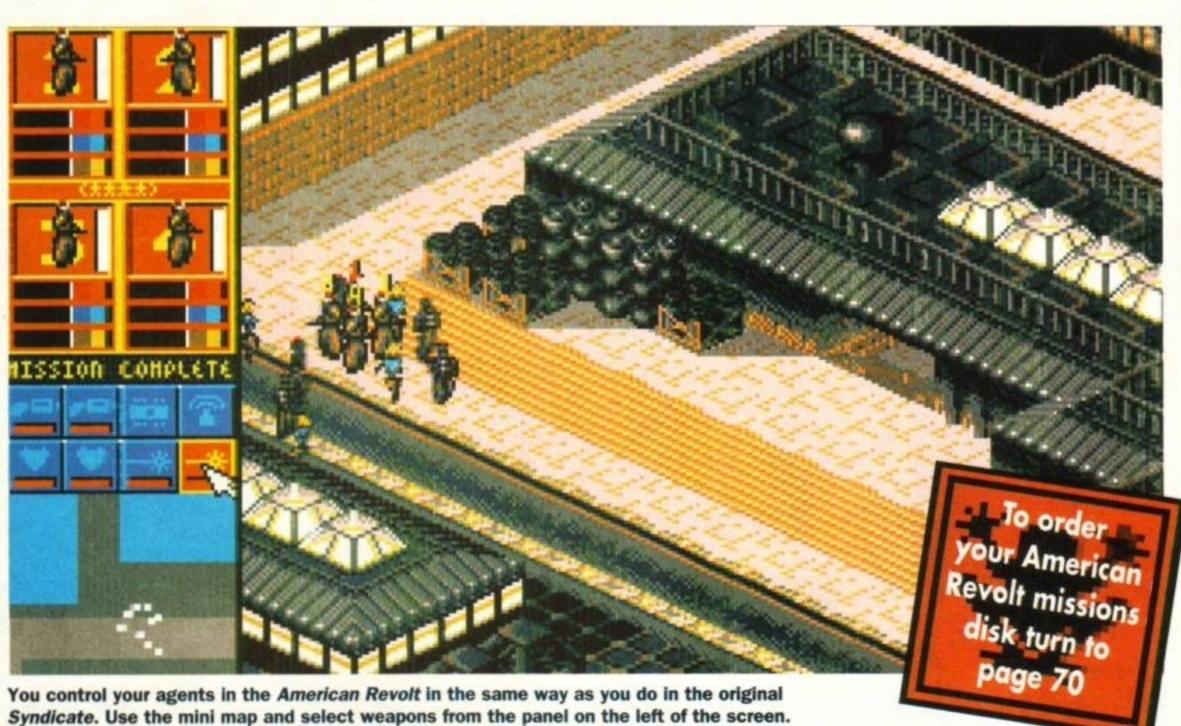
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AMIGA ME M

The Americans are revolting. Can you bring order from the chaos in these fiendishly tricky Syndicate missions?

SINDICATE ANELONE SILVER DE LA CONTRETE DE LA CONTRETARION DE LA C



Syndicate first nuked its way on to the Amiga scene. Its brutal gameplay fused cyberpunk with the god game – the end result, a game so violent that Saddam Hussein would have disapproved.

And now it's back, only more so.
Bullfrog have released American
Revolt for all those die-hards who
refuse to die hard. This data disk
continues the story of the syndicates
as they grapple to retain power of
the Americas.

In order to play American Revolt you've really got to be able to finish the original game because the datadisk's missions are at least three times as hard as the originals, so if you're new to Syndicate you'll be about as much use as a one legged man in a penalty shoot-out.

No offence, but unless you've played the original to death, you'll just get very frustrated with American Revolt, very quickly.

In all there are 25 new missions on the disk. They range from the difficult (The Rockies) to the downright impossible (The South American countries). Even with fully-equipped agents with a complete set of Version 3.0 modifications you're still going to die jolly quickly.

Mission bleedin' difficult

The secret to completing these missions lies in using each agent's drug intake carefully. If you got through the first game by simply yomping around in group mode killing everyone in sight, then you're not going to do very well at this game. Quite often you're going to have to split up

your agents, sending two to take out the enemy while the other two get on with the mission itself. The actual missions range from the usual combat sweeps where you



You'll probably spend a lot of time looking at the intro screen. It's that tough.

destroy everyone in sight, to the escort-type where you've got to keep someone alive. The escort missions are the trickiest, because it's very easy for the enemy to pick off your

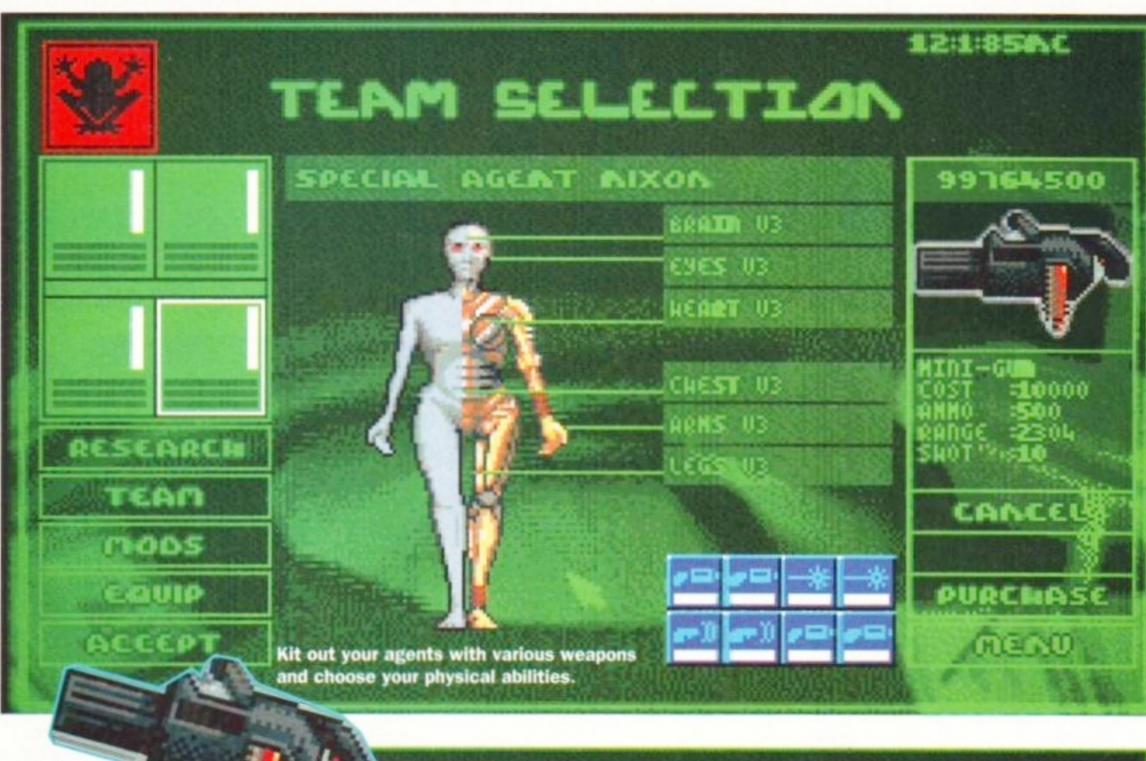
defector, which means you've got to keep your agents in the line of fire at all times.

By way of illustrating just how hard these missions are, here's what happens in Columbia. You're sent in to eradicate a double agent. The city's split into two sections and the agent won't reveal himself until you've dealt with all enemy agents.

There are about 20 agents in the southern sector and each one is just as well equipped as you. Having depleted all your firepower and







picked up a few extra weapons, you locate a vehicle with which to make the journey into the north.

When you spot the vehicle's guard, you head north and encounter the 50 other agents who are protecting your target. Then you die. Swiftly.

If you thought you'd be helped by new technology which would give you the edge over the other syndicates, then you'd be wrong.

Protect and survive

There aren't any new weapons available in the game (unlike the PC version), these are purely new missions. Bullfrog designed them in response to the number of people who complained that the original was too easy. Alex Trowers (who designed the levels) also wanted to stop people from wandering around in group mode.

This is most definitely not a game you'll finish the first weekend you have it and even the Syndicate programmers have trouble completing some of the levels.

While playing these missions it became obvious to me that the Amiga Format readership should be protected. So, if you're really sold on this mission disk and the cheque's already in the post, please follow these nuggets of advice:

STATISTICS

STATUS:

GUARDS RILLED: PEOPLE PERSUADED

ACCEPT

- Have the telephone number of a good therapist handy.
- before you start playing, so that they

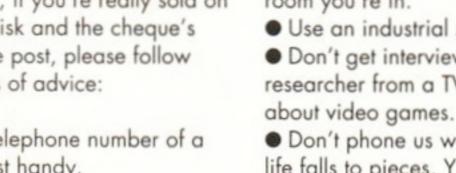
Encase your TV in foam, just in

If you salled through

missions...

the original Syndicate

 Give loved ones plenty of notice can evacuate.



The mission debriefing screen can make grim

reading, particularly the Mission Status section.

MISSIAN DEBRIEFING

FAILED

HOURS 9 DAYS

heavy blow.

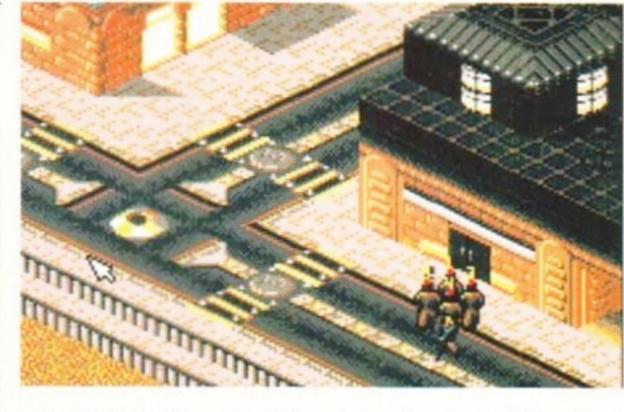
 Remove all sharp objects from the room you're in.

case it should it suffer some sort of

- Use an industrial strength mouse.
- Don't get interviewed by a researcher from a TV programme
- Don't phone us when your whole life falls to pieces. You have been warned.

Andy Hutchinson 🗇

MEAU



...you'll find the 25 new levels in American Revolt a much tougher proposition. Even the programmers can't complete some of them.





PROGRAMMERS Bullfrog

PUBLISHER Amiga Format 0225 822511

PRICE £12.99

RELEASED Out now

GRAPHICS

2 3 4 5 6 7 8 9 10

The usual shocking rivers of blood, cyberpunk citizens, and funky TV screens.

SOUND

2 3 4 5 6 7 8 9 10 Lots of swooshes, plenty of

screaming, and a healthy dose of machine gun fire.

ADDICTION

1 2 3 4 5 6 7 8 9 10

If you were hooked on Syndicate, be prepared to sacrifice all of your free time to this.

PLAYABILITY

1 2 3 4 5 6 7 8 9 10

It's all very playable but almightily, extremely, extraordinarily hard.

VERDICT

6 25 new missions for Syndicate fanatics with a difficulty rating equivalent to climbing the north face of the Eiger in your underpants. **



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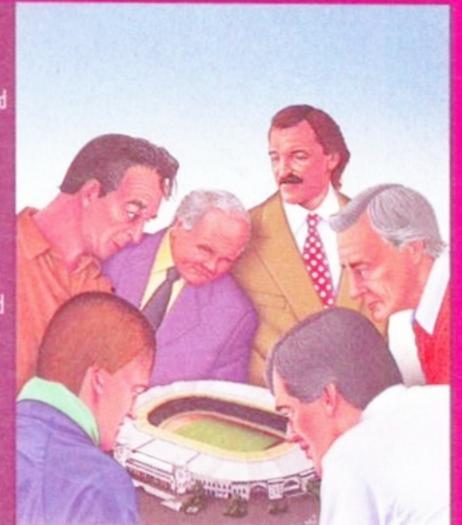
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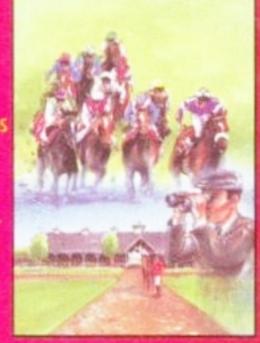
STABLE MASTERS **VERSION 2**

This game has been designed to be as close to real racing as possible. Five years of development by a clever racing expert has led to the second revision of this Flat Horse Racing Simulation. Up to 4 players can participate as Owner Trainers with the primary

objective of becoming the top rated trainer, in respect of prize money won, at the end of each racing season (March to November). There are up to 35 other intelligently controlled computer trainers to compete against and compare your personal performance. To achieve this aim you must discover a potential champion and train them so that they become capable of competing well and winning any of the 47 big prize money races (Handicap and Group). eg. The Derby To give you an idea of the tools provided in this game to assist you reaching your objective we have listed the main features below:-

 250 horses each with over 60 independent variables.

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- Formbook and Win Summary Cards cover the previous 200 races.
- Animated race display or just the result. View Declaration List for races.
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- Very informative report by Head stable lad. Tipsters. Bookmakers.
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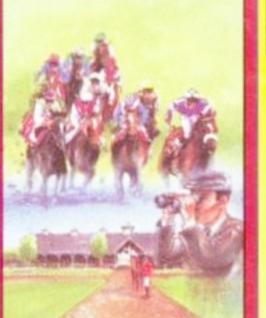
CRICKET MASTERS

This is a purely managerial cricket manager game that concentrates on strategy and includes plenty of relevant statistics. The game has been designed and developed by a true fan of the sport. It replicates everything that a real manager has to contend with and it's a totally unique production that all Cricket fans should experience.

A summary of the main features is shown below:-

- AXA EQUITY & LAW 18 league county teams, 50 overs per game.
- 4 Cup competitions including Benson & Hedges, Nat West.
- 20 different match umpires with accurate names and strictness.
- Accurate player details Surname, height and age.
- 27 different player attributes. Most skills have a direct impact on the effectiveness of each individuals actions during a simulated match.
- Easy player selection. All game text is clearly presented.
- Batting and bowling averages. Top batting and bowling tables.
- 3 Different training intensities to boost batting, bowling or fielding.
- Weather, pitch and light often make an impact on ground condition.

- · Full match highlights let you watch the action ball by ball with full graphics and/or realistic sampled sound effects for significant events (Fours, Umpire decisions, etc.). Interventions are permitted at any time to change batting tactics or fielding placings.
- 3 Batting/Bowling classifications.
- 15 different field placings.
- Full scorecard results with best batting and bowling figures.
- · Other staff (Physio, Groundkeeper, Scout) can be hired and fired.
- Annual league fixtures listing. Current week and last league results.
- View current cup competition draws and historic records.
- Real time transfer market. Player contract and wage negotiations.
- Sponsors, Finances, Poor ground fines, Manager rating.
- 15 Options to alter game prefs., Load & Save game, Printer access.
- Full instruction book with plenty of examples. Plus Many More.



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Computers : PC Compatible, Atari ST and Amiga. **Latest Press Comment:**

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WORLD CUP CRICKET MASTERS

A fantastic graphical and/or tactical representation of Cricket that has been completely written by a traditional fan. You can physically participate with batting and/or bowling or leave it to the computer to automatically handle. See full feature list below :-

PLAYER VARIETY

- Rated on 8 adjustable factors
- Left and right handed players.
- Range of batting types.
- Editor to amend game stats.
- Bowler types include seam swing, change and both types of . Joystick control of batsman's spin with 8 speed levels.

GAME OPTIONS

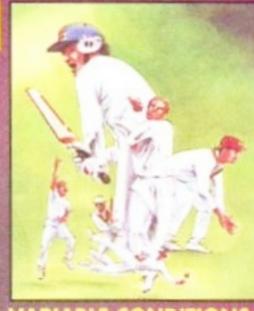
- 1 Day limited overs or test.
- · White or coloured clothing.
- Load/Save game. Skill levels.
- Three Cricket grounds.
- Computer/Human players.

FRIENDLY CONTROLS

- Icon driven with point & click.
- Large 3D scrolling screen covering the entire playing area.
- Mouse controls bowler's line, length, direction field settings.
- attack level, strokes and running between wickets.

STATISTICS

- Scorecard & bowling analysis
- Weather and ground reports
- · Wogon Wheel
- Monhattan Chart.



VARIABLE CONDITIONS

- Surface and pace of pitch
 Rain, bad light, cloud cover, temperature and humidity.

ANIMATED ACTION

- Sound Commentary.
- Umpire signals.
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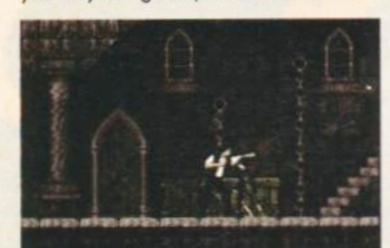
BRAM STOKER'S DRACULA

Psygnosis 051-709 5755 ■ £19.99

dd name for a game really - Dracula would have sufficed. I mean, it's not as if there's Mary Shelley's Dracula knocking around. Anyway, the Count has borrowed your fiancée, probably intending to commit bloody deeds at some point and your task, surprisingly enough, is to rescue her. And knock Dracula out for the count.

The vampire has many friends including henchmen and small, evil animals which suck the very lifeblood out of you. But worst of all, there's the Brides of Dracula. Gulp!

Set over nine stages, Bram's golden egg combines platform action with elements of the beat-emup genre. The hero (that's you - if you buy the game) is called Jonathan



Skeletons are easy to beat and can be dispatched with a swift kick in the ribs.

Tucked away in one coffin is a 'lady of the night'. Flash the cross and she flies off the handle.



and he's blessed with the sweetest two feet since Eric Cantona, a punch straighter than Lennox Lewis and a wardrobe nattier than George Armani's. Scattered around the dank castle halls are coffins to kick, crosses to brandish and bottles of blood to sup.

Dracula basically involves a lot of wandering around, kicking small



Pick up the cross - it's excellent at repelling vampires and the like.

animals and dead folk in such exotic locations as taverns, convents, castles and asylums. Graphically, it looks OK but unfortunately it all gets rather dreary after a while. "Dracula, you can keep my fiancée. I can't really be bothered".

Stephen Bradley 15

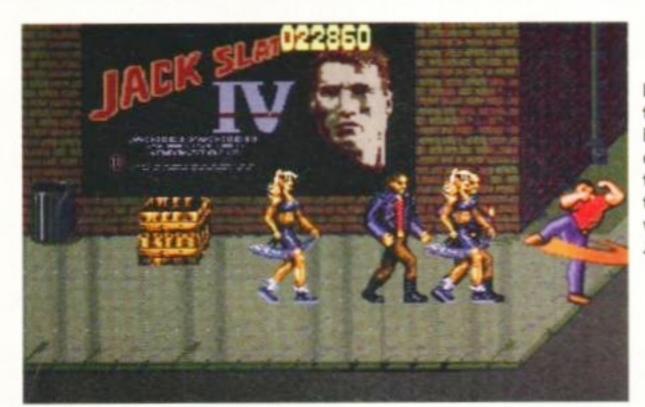


Jonathan has to fight flendish foes in his battle to rescue his flancée.

Dracula is out for the count in this less-than-gripping affair.



LAST ACTION HERO



Psygnosis 051-709 5755 ■ £19.99 on't let anyone tell you

Beaten up by twin girls. And in front of your own poster too. And we reflexive look at the film industry you thought you were tough, couldn't wish to see. If only the game Jack. of the same name could have had such verve and wit (Blimmin' heck!

He thinks he's Barry Norman). Unfortunately, the dish served up is a bland beat-em-up with numerous characters skating around á la Michael Jackson's Moonwalk, seemingly performing some kind of bizarre ghetto morris dance.

otherwise. Last Action

Hero is a great movie,

a more amusing and

When I say numerous, the same folk appear with alarming regularity - just when you think you've disposed of someone, back they come, trundling along the pavement - sorry, sidewalk - for another

After dumping you unceremoniously, the thugs even kick you when you're down.

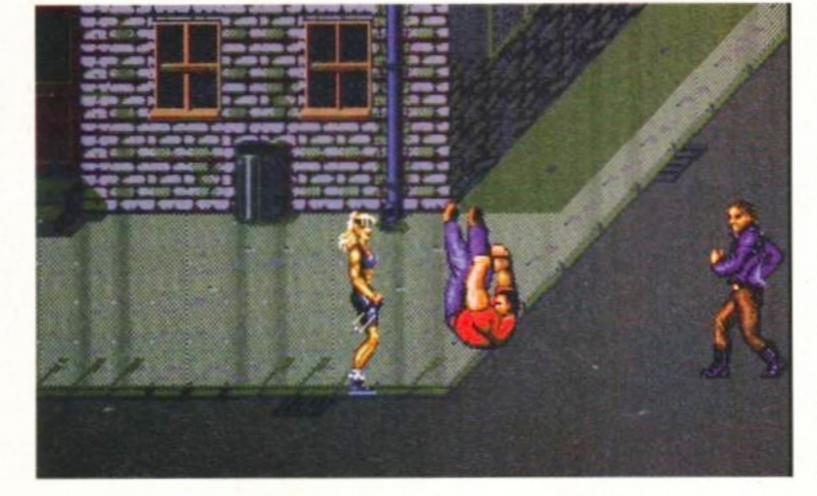


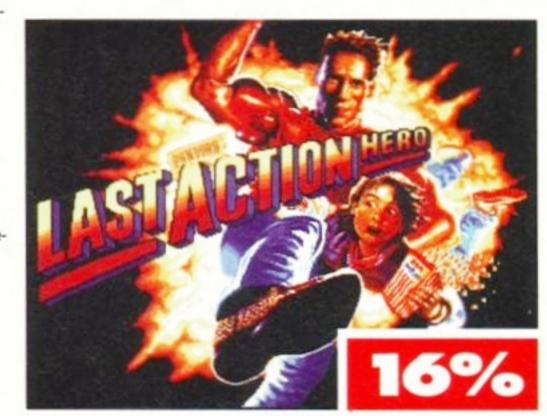
Arnie - sorry, I mean Jack - performs are quite nifty but on the whole, Last Action Hero is a sorry affair. Film licences eh? Who needs 'em. Play something else.

Stephen Bradley 1

Wrestling in the street with a member of the Village People is not good for street cred.









Beware of falling snow because being a cool dude counts for nowt in Cliffhanger.

CLIFFHANGER

Psygnosis 051-709 5755 **1** £19.99

ot quite as exciting as the title would have you believe, Cliffhanger spars the main man Gabe Walker against the formidable

> foe of Qualan and his mates. Plot scenario: bank heist in aircraft goes wrong,

goes wrong, plane crashes and you have to rescue the innocent while said bad coves search mountains for lost cash. Cliffhanger

mountains for lost cash. Cliffhanger was also a film starring the ubiquitous Sylvester – and the lass from Northern Exposure.

Avoiding wild birds, mad dogs,

mini-avalanches and falling rocks, you head high up into the peaks. Bags of cash litter the mountainous terrain and you need to pick up as many as possible.

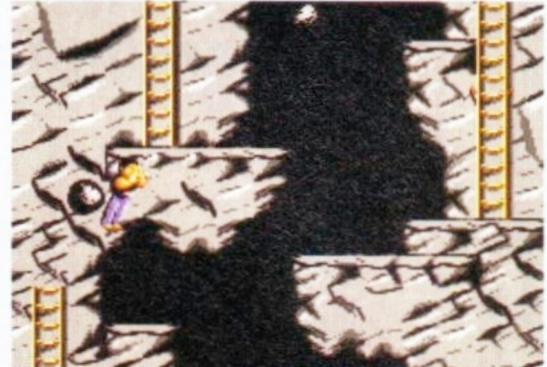
Cunningly hidden beneath some rocks are a pair of hiking boots which are particularly useful for some of the crevices you have to bound across. Your life force revolves around heat and if you stand around, Gabe starts to shiver. Why you get cold after being smashed by falling rocks is another matter all together. I'm sure that would give you a warm, stinging sensation.

No matter, scale some rapids,

No matter, scale some rapids, blow away Qualan's chopper and Bob's your Kendal Mint Cake.

The sad thing is, to keep warm you have to burn the bags of cash you pick up en route. Well, at least it stops the blaggards from getting the loot. Cliffhanger is an abominable game, though. It looks very poor, the control system is tricky and the chances are you'll finish it within a couple of days. So you won't have to play it again will you? Hurrah!

Stephen Bradley 5



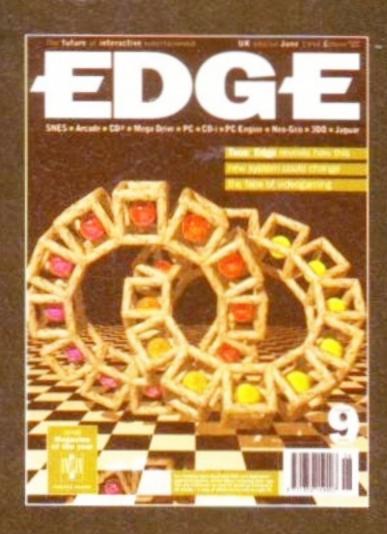
Falling rocks knock the very life out of you and you always seem to get hit a few times going up the ladder.



The eagle has landed. In fact, this eagle has landed right on top of you.

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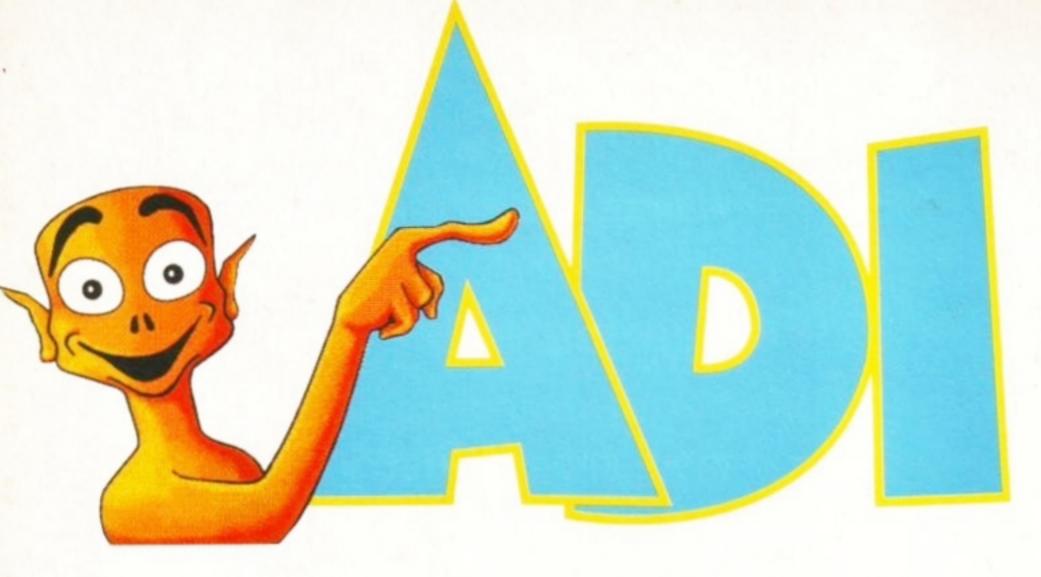


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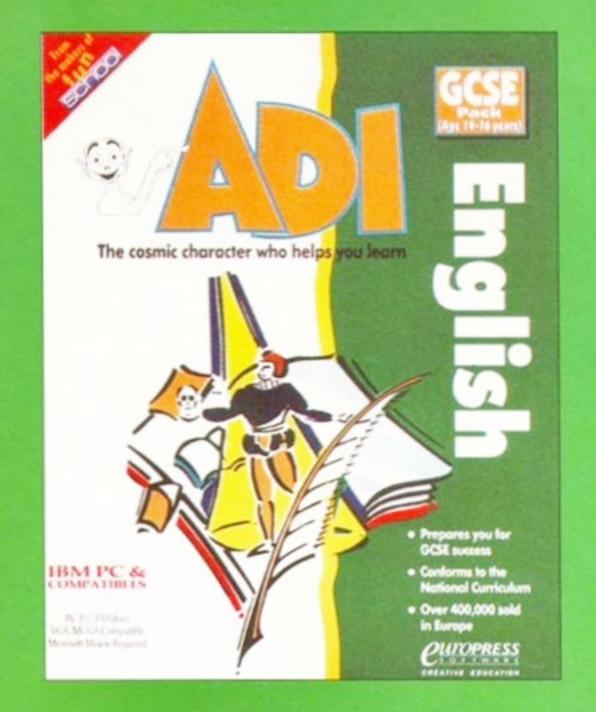
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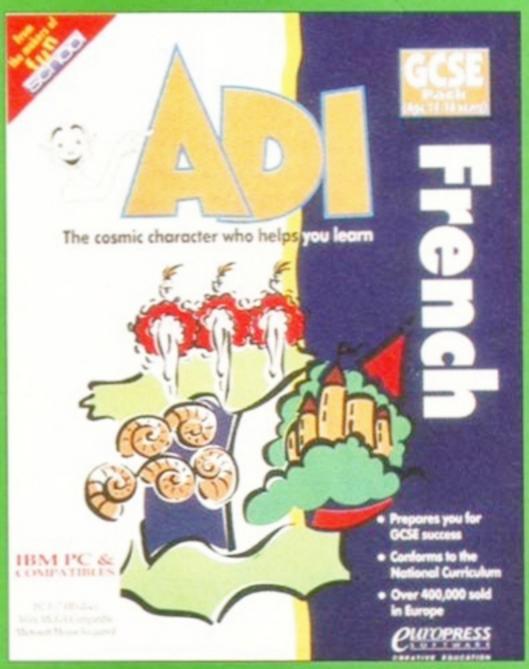
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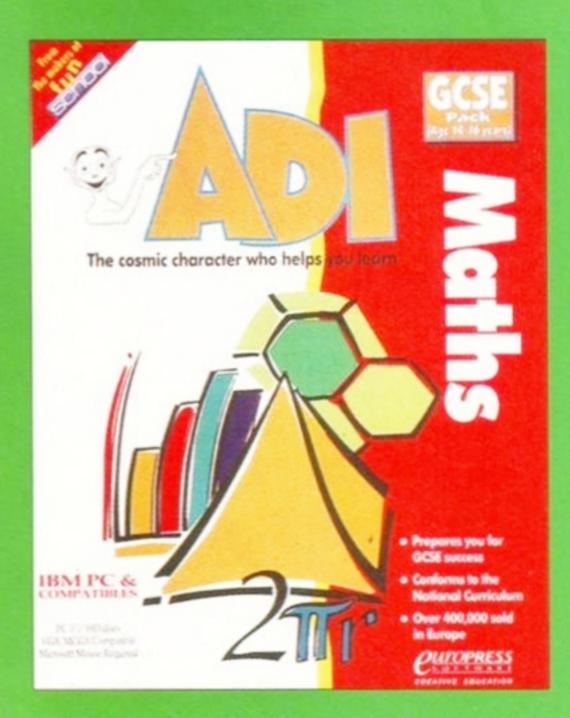
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1

WEABLEY RUGBY LEAGUE

Rugby League is all about hulking great forwards crashing into each other, so what's it going to be like with a joystick?

hen the manual for a £26 game suggests: 'If you are new to rugby you are advised to read a book on the game', it's not a good sign.

Especially because the software house hasn't explained the rudiments of the code for you. But of course, how can they when all they've go to work with is a sheet of A4 folded in half? What's more it seems that our 'manual' is the Australian version because it says that all the teams

DELOTED WED DEMAN

If you're going to get sin-binned, make

shut up in that bin while the sun's out.

sure it's on a rainy day. Shame to be

sight nor sign of said bunch of cobbers. Maybe it's some far-flung place off the beaten track in Cumberland.

Up and under

Still, at least Audiogenic have been bold in attempting the first Amiga arcade Rugby League simulation,

Wembley Stadium to boot.

All of the English League teams are included although the players

and with an official license from

except Cronulla-Sutherland are com-

puter-controlled but there was neither



To take the tap kick, you just have to touch the ball with your foot and hope you have chosen the best preset option.

LOVATT HOLMES OO 35

The Blimp View gives you vertigo it's so far up and it's impossible to follow the play.

The Blimp View gives you vertigo it's so far up and it's impossible to follow the play.

All you can see is a crowd of ant-like figures weaving across the pitch.

names have been changed. Each player has nine different skill ratings including stamina, speed and handling so there are also management elements to consider when you select your team.

Rugby League is not the easiest of sports to translate on to screen and some of the rules seem baffling at first, particularly to folk in Rugby Union-strongholds such as Bath, where AF is based.

One of the main differences between the two codes is League's six-tackle rule where you get six chances to run towards the try line before you have to hand the ball over to the opposition and Wembley Rugby League successfully incorporates this rule.

Pitch battle

There are two pitch-view options; the normal view seems fairly restrictive at first – you can't see a great deal of the pitch but you soon get used to it. But the Blimp View looks like you're watching proceedings from



Each player has different strengths and weaknesses – old Hughsey is a touch slow but can last the pace.

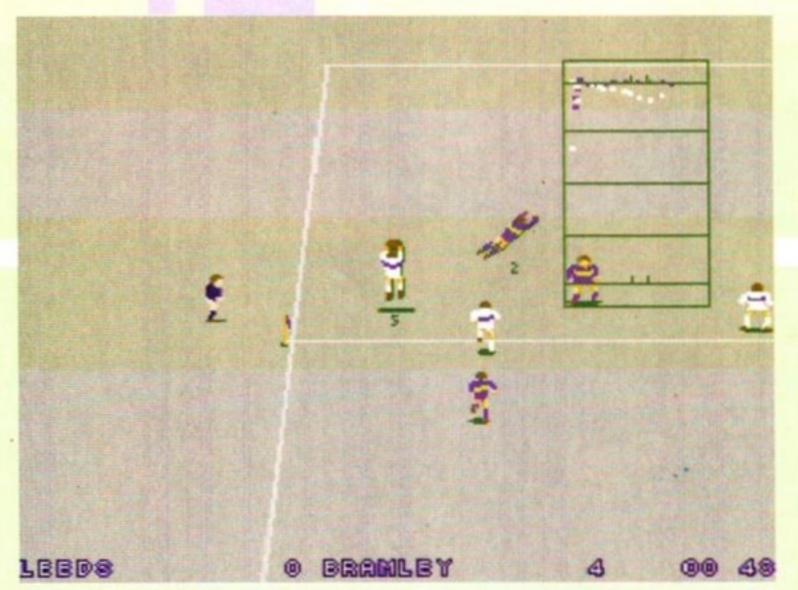


Waggling your joystick gives your pack a welcoming heave-ho as the scrum half waits patiently for the ball.

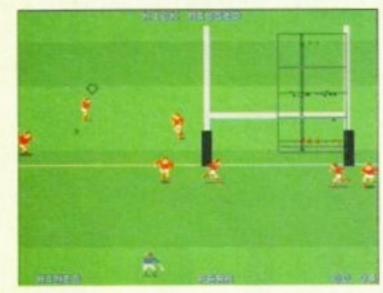


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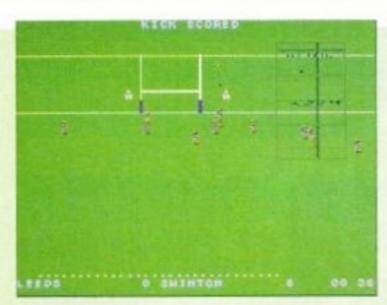
Before you chuck the ball into scrum, check out the set plays and decide which is best. Some of them are a bit confusing but a couple work a treat.



The local derby is being played in atrocious conditions with the snow lying deep on the pitch. Oh my word! Bramley have taken a shock lead over their illustrious opponents.



Converting tries and scoring penalties takes a bit of time to master. You need plenty of 'up and under'.



As you can see, taking the kicks from the Blimp View makes things more difficult, and, err, smaller.

the Goodyear airship. The players are too small and it's virtually impossible to work out where the ball is.

If Audiogenic had opted for a Sensible Soccer kind of view, it would have made the game a lot more more effective.

But what of the gameplay? Running and passing the ball couldn't be simpler and despite some rather strange collision detection in the tackling, overall you do get the feeling you're playing Rugby League which, of course, is the whole point of the exercise.

Scrum and get it

As is usually the case with sports sims, Wembley Rugby League plays best in two-player mode because the computer teams can move across the park with such lightning pace that it's difficult to follow the ball.

There are a number of preset plays to choose from for tap-ins and scrums, most of them rather bewildering if truth be known. But some of them seem to bring results, and the Blind Side move and something called a Featherstone are quite neat. Wembley Rugby League also has plenty of options. You can play for up to 80 minutes, there are seven skill levels, a variety of tactics, as well as differing weather conditions.

Graphically it's just OK, nothing special, but the sound sets the game apart - it's absolutely appalling consisting of just the odd 'uurrgg' and cheer. Despite these few reservations, I really enjoyed playing this game. There are no major flaws in the gameplay and although it's a tad rough around the edges, Wembley Rugby League really can be a lot of fun.

Stephen Bradley @

WEMBLEY RUGBY LEAGUE



PROGRAMMERS Denton Design

PUBLISHER udiogenic 081-424 2244

PRICE £25.99

RELEASED

Out now

GRAPHICS

2 3 4 5 6 7 8 9 10

It doesn't look anything special, but the kit detail is good and the sprites are a decent size.

SOUND

1 2 3 4 5 6 7 8 9 10

An appalling synthesiser tune which thankfully can be turned off. Terrible crowd noise

ADDICTION

1 2 3 4 5 6 7 8 9 10

If you like Rugby League, you vill probably enjoy this, but it's not Sensible Rugby League.

PLAYABILITY

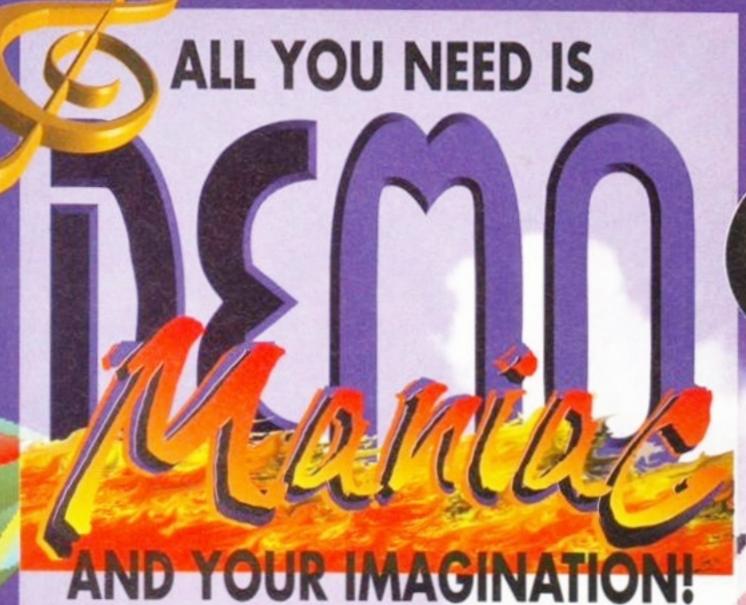
1 2 3 4 5 6 7 8 9 10

Easy to pick up and play. You some fairly tasty moves.

VERDICT

" Although it's a bit shabby in parts, the actual gameplay is fine. A better pitch view, more sound effects and a decent manual would have helped. "

749/6



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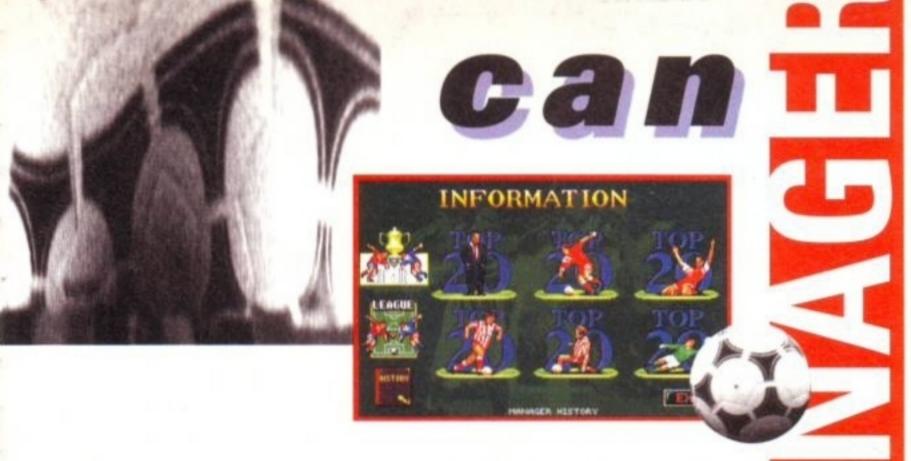
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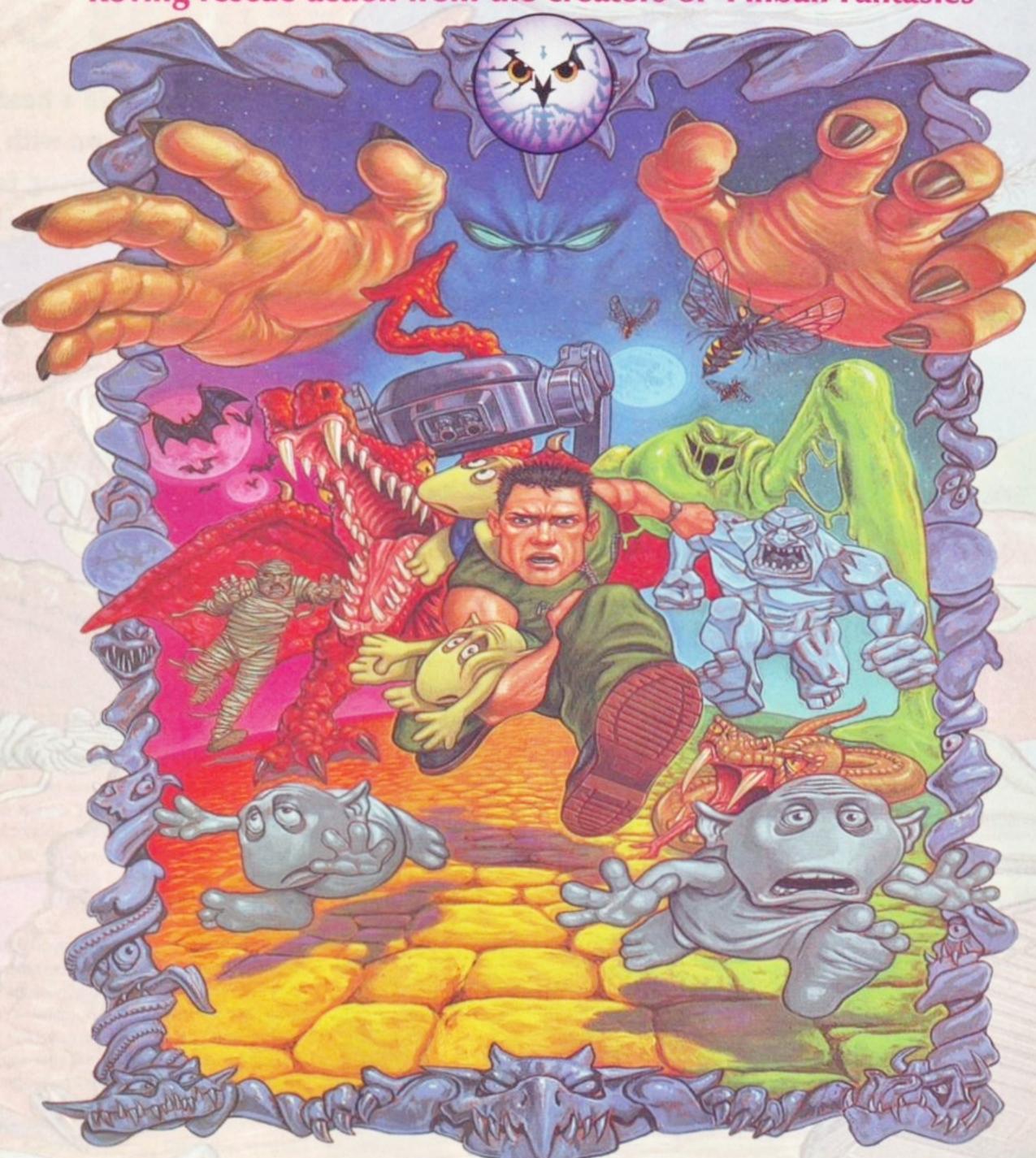
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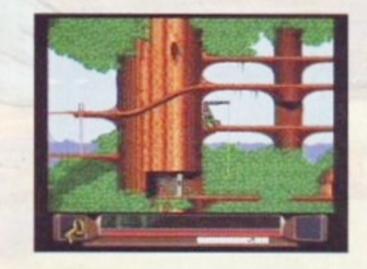
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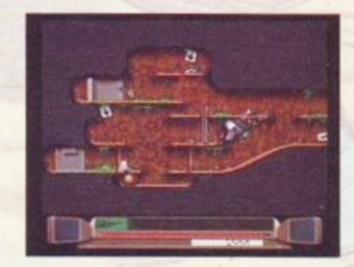
Roving rescue action from the creators of 'Pinball Fantasies'



What makes him so good?

















BEGINNING OF THE

GENERAL SIR BEFINRED L. MONTGOMERY seneral Sir Bernard L. Montgomery, 'Monty', led the 21st firmy Group and initially commanded all fillied ground forces in Normandy. Montgomery was fifty-seven at the time of D-Day and had the reputation of being Britain's foremost fighting commander. As a lifetong student and practitioner, Montgomery distrusted amateurs, and few fillied military commanders could match his training and combat experience. On Rug. 12th, 1942, as corps commander of the Eighth Army in Egypt, Montgomery made this historic proclamation: "Here we will stand and fight: there can be no further withdrawal. We stand and fight here, If we can't

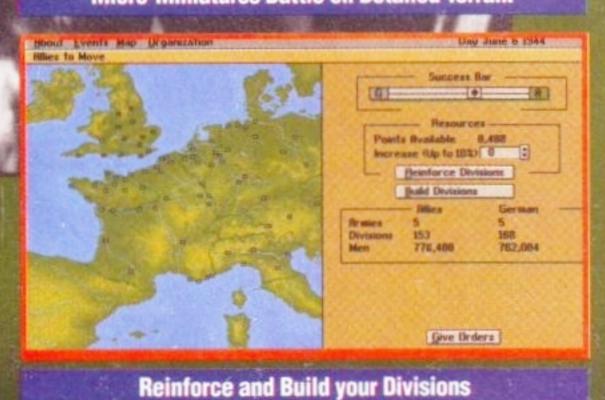
As Supreme Allied or Axis Commander, the fate of Europe Establish a beachhead and smash through to Berlin. To the Axis: Break them and preserve the Reich.

Historically Accurate Personalities





Micro-Miniatures Battle on Detailed Terrain



hangs on your decision. The challenge to the Allies:

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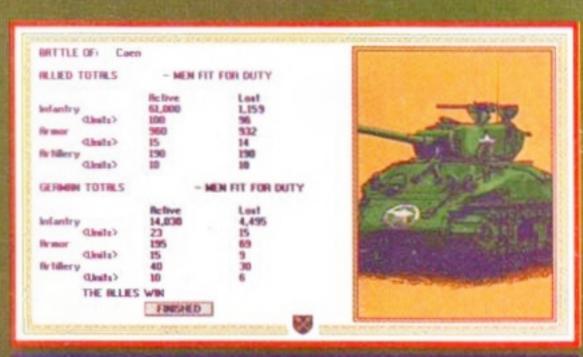
This is a wargame with a difference!

Play real-time animated battles within turn-based strategic campaigns from June 1944 through the end of the war.

D-Day: The Beginning of the End™ is the latest in Impressions' Micro-Miniatures series. It even surpasses "The Blue & The Gray" in strategic complexity, and packs in the historical detail you demand.

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 Naval/Air Bombardments
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 - Supply & Reinforcements
 - Detailed rural and urban terrain





Battle Results: Win or lose?

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IBM PC VGA Screenshots

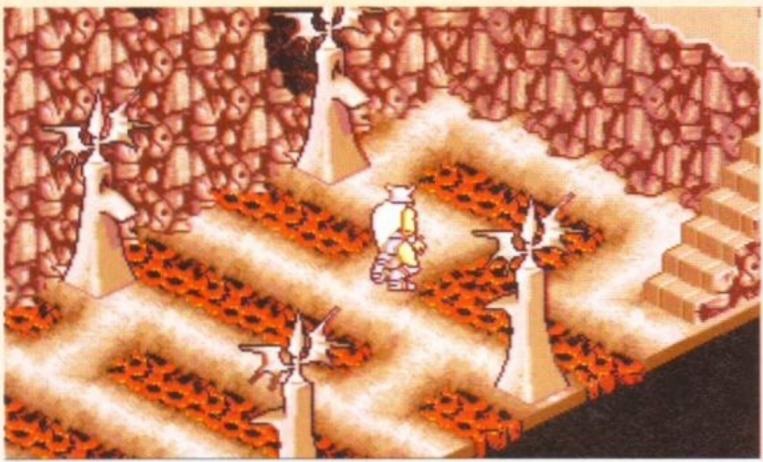
HEIMDALL 2

Take a centuries-old legend, a rebellious god or two and a large pinch of hocus-pocus and you're left with an enticing new adventure from Core Design

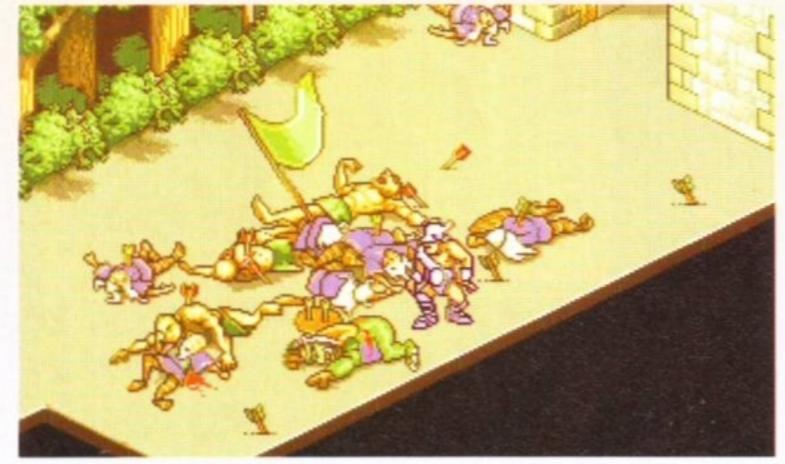
din, Wodin, Thor and
Frey have been feeling
a bit smug lately.
Perhaps too smug.
Since the defeat of the evil Loki a
couple of hundred years back,
they've been uproariously toasting
their own success and taking saunas
with leggy Norse wenches.

Now someone has snuffed out the fires in their hearts and loins and is threatening their world again. Loki is out for revenge. Heimdall 2 is the long-awaited sequel to Heimdall, in its day one of the best isometric role-playing adventures ever. This time our hero Heimdall, along with his female sidekick Ursha, has to track down the six missing pieces of a powerful amulet which have been spread around various locations in Yggdrasil and the worlds beyond.

The key to Heimdall's success is a kind of holy transportation system called the Hall Of Worlds. This hall contains a network of portals accessed by magic talismen which enable its user to travel to any loca-



The path to the Giant's HQ is a treacherous one, but it contains yet another magic talisman for you to add to your collection.



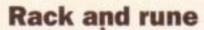
The forces of good have been overrun by Loki's evil hordes and you start to realise that maybe you've got a real battle on your hands.



The Hall Of World is a mystical and wonderful transportation system which gives you access to the mysterious lands of Asgard, Midgard, Utgard and Niflheim.

tion at will. Of course, many of these magic talismen are missing and Heimdall's first task is to find them. He also has to do battle with as many of Loki's forces (the Hakrats) as he meets on the way.

Essentially, Heimdall 2 consists of a series of puzzles and mini-quests which you, as Heimdall or Ursha, have to solve. Various clues are obtained from the many people who populate the game as well as from the objects that you can collect or buy on your travels.



Heimdall 2 also enables you to build up a formidable array of offensive, defensive and healing spells thanks to the inclusion of magic runes and recipes. But what's this game actually like then?

The first thing you notice is how graphically gorgeous it is. The isometric perspective gives you a good view of the action and the backgrounds are packed with tiny animations and a significant amount of detail. The game almost has a cartoony feel, especially when Heimdall

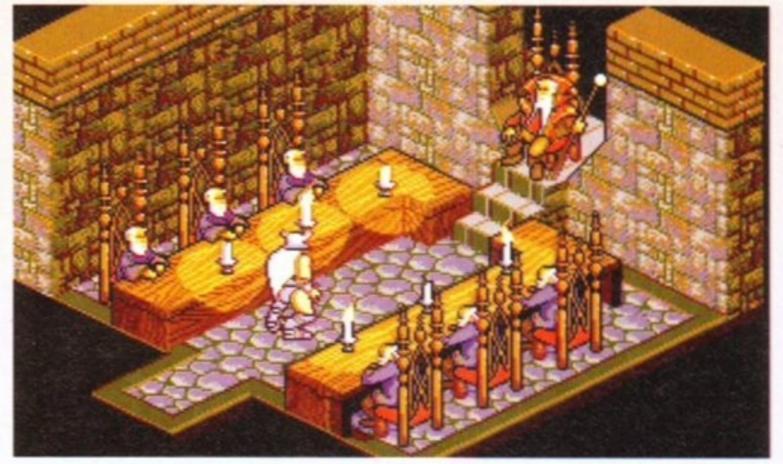


Heimdall pops into his local for a quick pint of grog and a gossip about Midgard's scandalous royal family.

and Ursha slink around the screen, leap off objects or get involved in a spot of combat. This game certainly looks the part.

The puzzles too are suitably complex – you usually have to visit three or four locations, chatting to different people and trying different things before you piece the clues together to get a useful object. On the way you also pick up a whole load of information about Loki, the Hakrats and people's motivations for helping or hindering you.

However, with any puzzle game things can become frustrating if you get stuck on one aspect of the game for too long. Because Heimdall 2 is



Equipped with the prince's armour you set off to see his father, the king, to find out more information about your quest to right wrongs and cast spells.

A.

HOW TO FIND YOUR WAY AROUND HEIMDALL 2

No self-respecting RPG hero would be seen dead without a sizeable inventory packed full of weapons, talismen and symbols, and Heimdall is no exception. Here's what they can do for you...

0234567890000



- 1 Hand-to-hand weapons: Heimdall or Ursha can store up to eight hand-to-hand weapons each including axes and long swords.
- 2 Armour: reduces your chance of injury during hand-to-hand combat. The King's son gives you his chainmail early in the game.
- 3 Throwing weapons: enable you to attack enemies from a distance. Items include axes, daggers and bows.
- 4 General: anything that's not a weapon or a piece of armour gets plonked in here, including the old rune scrolls, food and vitals, a variety of potions and arrows.
- 5 Holy Symbols: these objects are crucial at certain stages during the game and increase your spell-casting abilities.
- 6 Talismen: access to the different portals in the Hall Of Worlds is only possible with the magic talismen granted to you at various stages.

- Z Look at: to find out more information about an object in your inventory move it on to this icon.
- 8 Eat: after a few skirmishes with the Hakrats your health starts to suffer. Move food, drink or potions on to this icon to recover your strength.
- 9 Drop: move any unwanted items on to this icon to remove them from your inventory.
- 10 Statistics: provides you with vital information about Heimdall and Ursha's abilities.
- 11 Save Game: saves your current position. You need a formatted Save Game disk first.
- 12 Load Game: loads a previously saved game. Extremely useful for when you die.
- 13 Exit: this one quits the invengame screen where you can continue in your quest.

- 14 Hand-to-hand weapon in use: place a weapon from the Hand-to-Hand Weapons screen here to arm the currently selected character.
- 15 Armour in use: to wear collected armour, move the object required from the Armour screen on to this icon.
- 16 Throwing weapons in use: place a throwing weapon from the Throwing Weapons screen here to arm the currently-selected character.
- 17 General items in use: to use your bow and arrow, the bow should be placed on the Throwing Weapons In Use icon and the arrows placed here.
- 18 Text box: all sorts of useful information about different items appears here when you use one of the icons above.
- 19 Brief description box: gives information about the currently selected item.

pretty linear, failure means you're denied access to large sections of the game, so you end up paying repeat visits to the same in-game

" Heimdall 2

feel to it "

looks absolutely

gorgeous and has

an almost cartoon

characters only to discover they're stuck in a conversational loop which only alters if you achieve something elsewhere in the game world.

This isn't a major fault in itself because you expect to get hopelessly



The Land Of Midgard is your starting location and an ideal place to practise your fighting and magic skill.

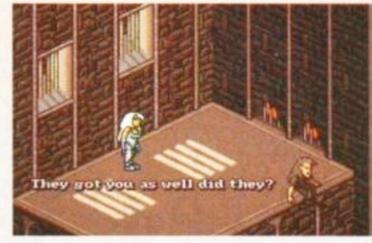
marooned in a game like this from time to time, but the problem is your progress is hampered by some overwhelmingly slow and constant disk

accessing and swapping. This means that virtually every time you enter or exit a room you've got a long wait before you can get on

with the next scene. Another curious feature is the mixture of mouse and joystick controls. The mouse is used



The Giant Isle is one of those places where you know you have to do something, but you're not quite sure what.



Heimdall and Ursha have failed to defeat the mighty, and extremely irritable, Loki and are sent to prison for their pains.

to access icons and menus, and the joystick is used for moving your character around and fighting. This takes a while to get used to and the game would have been just as good without the joystick. The fight sequences are limited, so you don't need a stick to make the most of them.

Despite these drawbacks

Heimdall 2 is an absorbing and
addictive adventure and although it
can't claim to be one of the best
examples of the genre, it certainly
comes very, very close.

Rob Mead ®

HEIMDALL 2



PROGRAMMERS

The 8th Day – Jerr O'Carroll, Ged Keaveney and Dave Keogh

PUBLISHER

Core Design 0332 297797

PRICE £34.99

RELEASED
Out now

GRAPHICS

1 2 3 4 5 6 7 8 9 10

RPGs don't come much better looking. Serious adventurers might find it a little too cutesy.

SOUND

Dramatic music and ear-splitting sound effects. What more could you possibly ask for?

ADDICTION

1 2 3 4 5 6 7 8 9 10

With a feast of puzzles and cryptic clues *Heimdall 2* keeps you guessing and playing.

PLAYABILITY

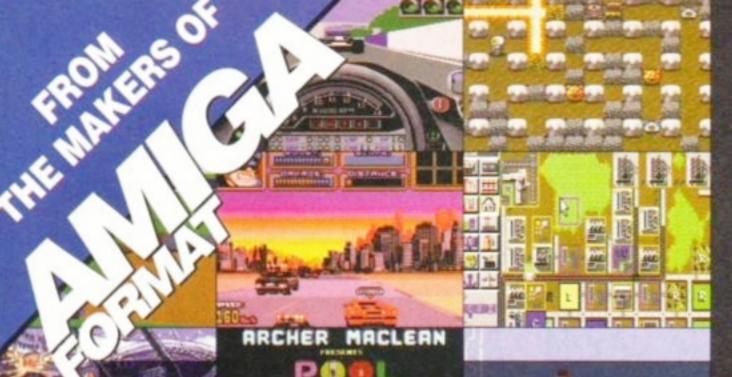
1 2 3 4 5 6 7 8 9 10

Cumbersome controls and too many disk swaps. Why not make it hard drive installable?

VERDICT

"Heimdall 2 is an absorbing, enticing adventure which is let down by some very fiddly controls and the frequent disk swaps. Oh, and it's a bit on the pricey side too."

81%



DON'T BUY AN UNTLY YOU'VE

THIS MONTH IN AMERICA POWER, WEIRING

PICTURESQUE...

"As the firing squad raise their rifles, we see a little old lady with a zimmer frame inching towards the phone, with several hundred yards to go."

- Jonathan Davies carefully sets the scene for his review of, er, *International Soccer* from Zeppelin.



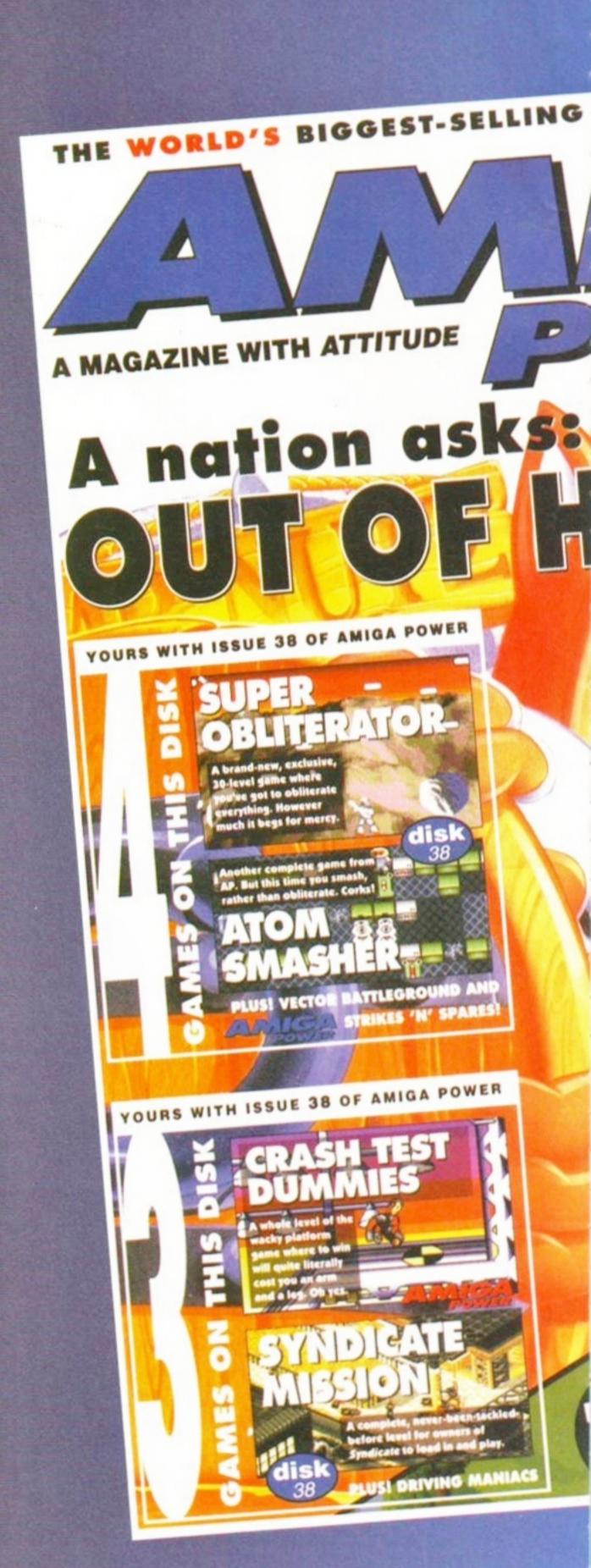
PROVOKING...

"Who's going to be interested in watching a bunch of dwarves in



brightly-coloured polka dot clothes beating the living daylights out of some of the most beautiful creatures ever to grace the Earth?"

 Wonders Steve McGill, shortly prior to using the phrase 'strangely exasperating numerical dyslexia' in his review of ESP's new Stable Masters 2.



AMIGA GAME READ THIS





VISCERAL...

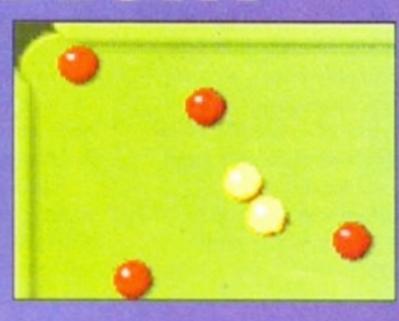
"PC Trouserpress draws his truncheon and wades in, swinging indiscriminately to the left and to the right."

- Stuart Campbell tackles Millennium's long-awaited new cutesy platform extravaganza James Pond 3, in his own inimitable style.



...AND BLUNT

"But I, personally, would be loath to pay £10 to be ridiculed by my own computer"



 Jonathan Davies speaks for us all, while casting his experienced eye over Team 17's Arcade Pool.

A DEFE

It's always been the world's best Amiga games magazine. And now it's the world's biggest-selling Amiga games magazine. As well.





TACTICAL MANAGER

here are many football fans who would like to take issue with the title of this game. No doubt Blackburn Rovers and Manchester United fans will be reasonably happy with the tactics of their respective managers but the majority of us are left to ponder the gaffer's idiosyncratic team selections and tactics.

I've got two words to say to Howard Wilkinson – Eric and Cantona. Doh!

Do I not...

Tactical Manager has been around in various guises for some time now. Originally called Football Tactician, it built up a solid following through mail order sales and has now been re-written, revised and packaged for general sale.

But does the market really have room for yet another football management simulation?

The top 30 games chart in May had four footie sim entries and one must wonder how much more you can actually do with the point and click football stats medium.



Toby Tyke and Barnsley suffered a reverse against the Lincolnshire men.

Well, for a start you can add even more statistics.

Black Legend are releasing four versions of the game; English League (Premiership and First Division), Italian Serie A And B, Scotland and German Bundesliga. This version contains all the Premiership and First Division teams.

Unfortunately, you can't walk straight into a top job – you start with a rating of three and you can only get a post with a team of the same rating or less which basically means donning the managerial shell suit at any First Division club, apart from Crystal Palace.

There is a fair amount of information to digest and out of all the sims available, *Tactical Manager* is the most text-based. So you have to be a serious fan of the genre to take this on board.

All the usual management options are here including piles of players stats, access to all the info at other clubs, transfer markets and a useful editing system whereby you can update names and stats as and when they change.



Pick a club by weighing up the strength of the team, or go for the prettiest badge.

During the matches, you're kept informed by a series of running comments.

Player profiles are a tad random (Paul Ince hasn't got one though lesser stars have) and some of the info is rather odd – Leeds' Gary Kelly earns more money than teammate Gary Speed here. If you're a popular chap, it's possible to have up to 46 players on the go at once.

Although the information is quite detailed, Tactical Manager is well-designed, easy to play and runs at a decent speed. The matches can be watched as a series of comments, highlight comments or just as goals. A marker on the pitch enables you to see where the ball is during play.

Like that

Strategy and tactics are based on a number of styles such as Sweeper System, Through Balls, Rough Playing or Heavy Marking. They take a while to get the hang of but you basically find a system to suit the strengths of your team and adjust them depending on your opponents.

Tactical Manager is probably the most detailed management sim around. There are enough stats and options to suit the anorak-sporting fanatic but some may find the barrage of text a touch bland. It's not a game for the casual fan, but Tactical Manager should satisfy even the most committed Fergie wannabee.

Steve Bradley 1



All the vital footie news is constantly updated between matches.





PROGRAMMERS

Camy Maertens and Talking Birds

PUBLISHER

Black Legend 0438 8400034

PRICE £25.99

RELEASED
Out now

GRAPHICS



Completely text-based but Tactical Manager is clearly set out and easy to use.

SOUND

1 2 3 4 5 6 7 8 9 10

Not the management sims' strong point. Annoying music and the odd cheer.

ADDICTION

1 2 3 4 5 6 7 8 9 10

Plenty of detail and fast enough to get to the next game without too much waiting around.

PLAYABILITY

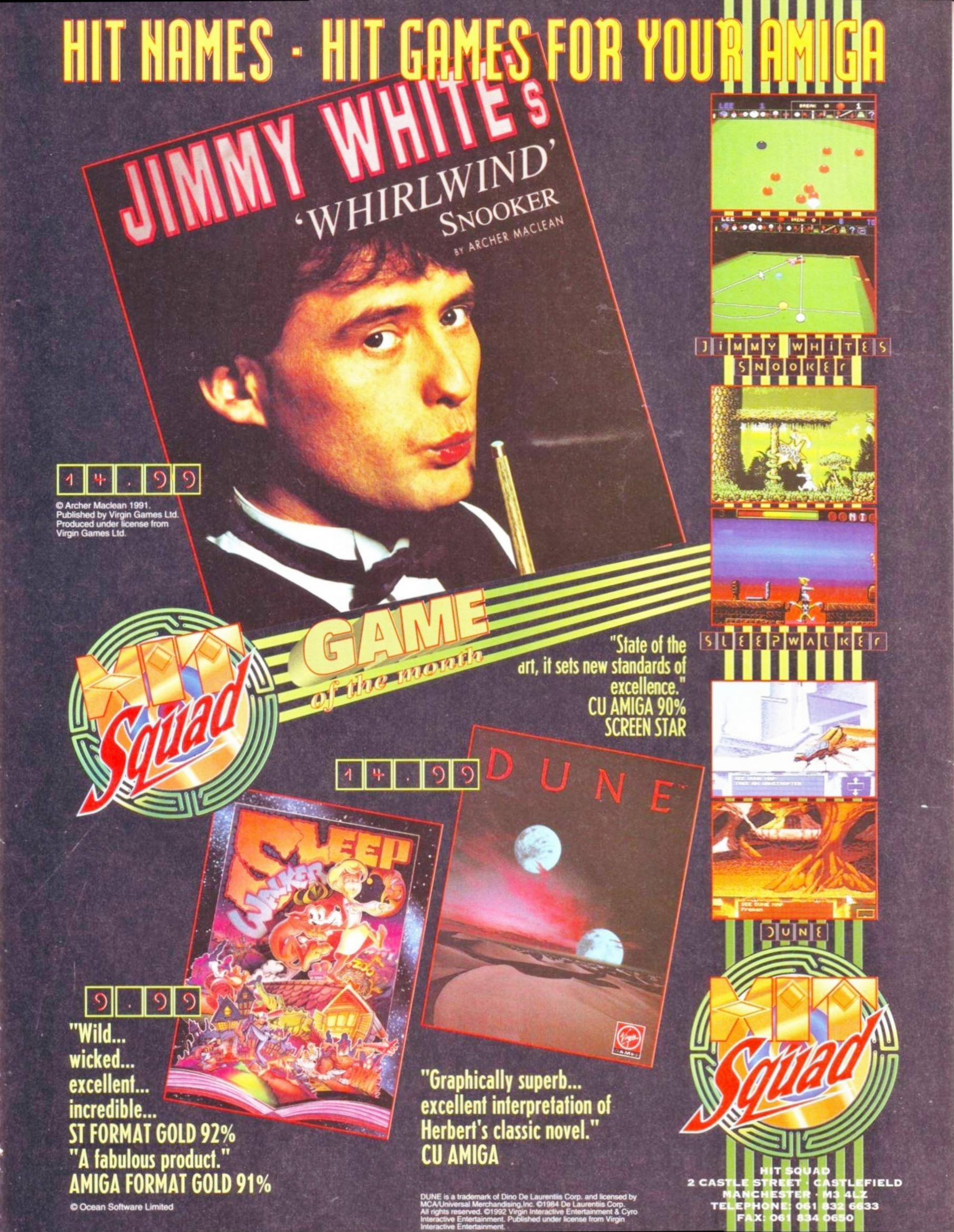
1 2 3 4 5 6 7 8 9 10

Despite the initial shock at the amount of info, it's an accessible and playable sim.

VERDICT

"Tactical Manager
will appeal to the
committed footie
management fan. The
host of different
options should ensure
longevity, particularly with the
promise of seasonal
upgrades."

78%



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ouldn't it be great if all this money was real? Well it's not, so there.

Monopoly brings out the worst in people. You may have strong views on an individual's entitlement to gather a bonkers amount of loot, but a few minutes into a game of Monopoly you become a property hoarding, money grabbing scoundrel — and it's fabulous.

But effectively translating such a classic game on to screen, with all its quirks and tensions would seem a tough task. Not so.

Angel Islington

Assemble a cast of bizarre, Viz-type characters and some vaguely amusing animated sequences together with a large tablespoon of humour and you've got yourself a recipe for some serious Amiga-enhanced wheeler-dealing.

Two of the characters in particular look like they've stepped straight out of the pages of the popular adult comic. Frank Barrow is a dead



Up to eight human or computer competitors can play. Isn't that St Paul's Cathedral in the background. I'd love to build a few hotels on it.

ringer for Farmer Palmer and Mrs Starch, despite the name, rather resembles one of the Fat Slags.

The computer players have individual characteristics – some are sneaky, some greedy, others are plain stupid. Up to eight can play and you can mix human and computer players if you wish. Playing the game is simplicity itself, all the usual

Monopoly rules apply – intensive manual scanning is not required (always a bonus for the boot-up-and-get-on-with-its like myself). If you don't already know, the basic idea is to buy property and build houses and hotels gaining rent money in the process to fund expansion.

Each property has its own animated street scene and the players' counters – irons and cars, you remember – all chug along in a whimsical manner.

Community Chest

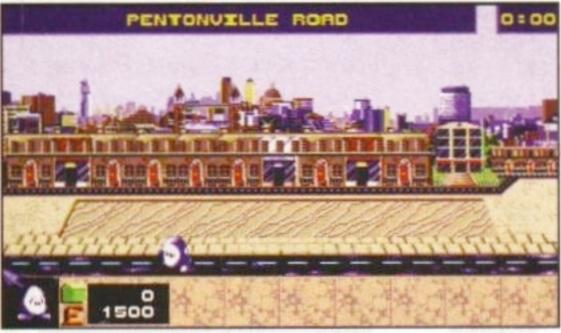
It actually all works pretty well. But whether you're keen enough to shell out 28 sovs is another matter. The AF office certainly had a fine time taking a Chance and delving into the Community Chest with odd unwanted trip to one of Her Majesty's 'holiday camps'.

Unfortunately, none of the players ever nip off to the toilet so the odd, pinched £100, or a sneaky free hotel is out of the question. Who ever played *Monopoly* without cheating? Rather expensive, but fun nonetheless.

Stephen Bradley ©



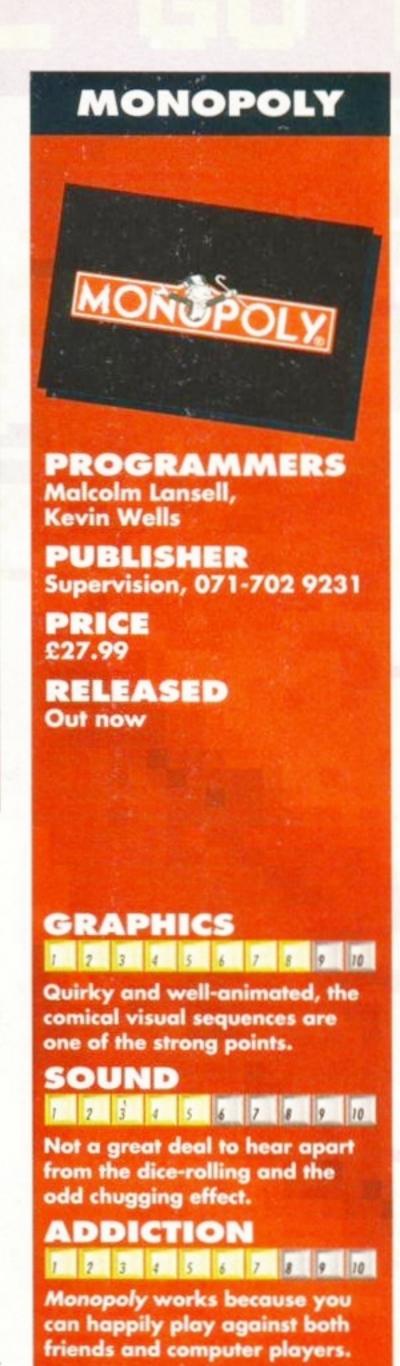
Everyone throws the dice at the start of the game to see who gets first opportunity to hit the streets and snap up some prime real estate.



Every property has its own street scene although there are startling similarities between the four London stations.



Always a useful card. Hopefully, you'll never have to use it, but you never can tell in the rough and tumble world of *Monopoly*.



"A cast of shifty characters, comical animated sequences and easy-to-use icons ensure that budding property moguls will have a fine time attempting to bankrupt one another."

PLAYABILITY

The icon panel is simple to use

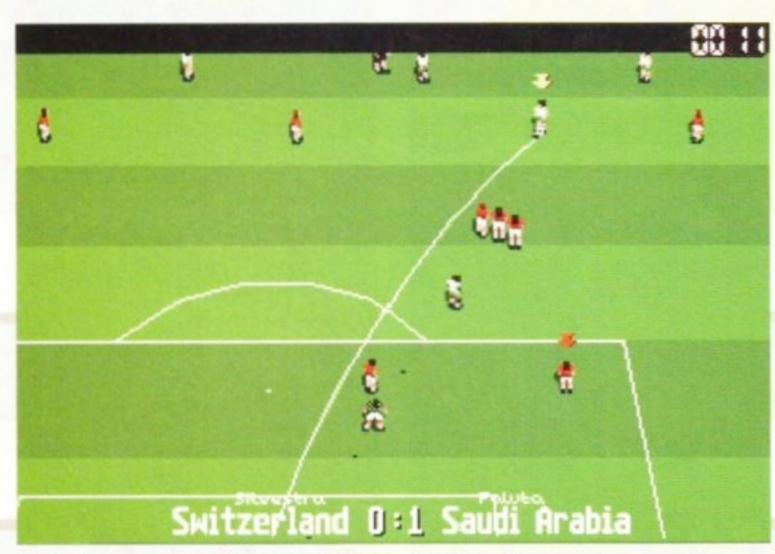
you're living it up in Mayfair.

VERDICT

and it won't be long before



SIERRA SOCCER WORLD CHALLENGE EDITION



The wall lines up but if it's a perfectly floated free kick there is little you can do.

ipping smartly in before World Cup fever is upon us comes Sierra's summer football offering. Remember Striker? Not the Seventies footie board game where you whacked the players' heads, hoofing the ball towards the onion bag only to be scuppered by the fabulous diving goalies; but the frantic Amiga game released alongside Sensible Soccer back in 1992.

Well, Sierra Soccer bears an uncanny resemblance to Striker in both looks (though the pitch view is wider) and play. In fact, one might think the same teams developed both



All the World Cup teams are in here and one other. Can you spot them?

games but no; different programmers and two years apart.

Sierra Soccer adopts the tried and tested Sensible pitch view and offers up all the teams playing in this year's World Cup with England as an added bonus - well, there's no harm in pretending, right? Mind, the players names have been changed no official licence, see, so you get McGrarf playing for the Republic of Ireland (if he turns up) and Fyortoff turning out for the Norwegians. Unfortunately, you can't edit the names but there is room for one custom team (all you miffed Welsh, Scots and Northern Irish).

Simple steps to scoring

So what extra, if anything, does Sierra Soccer offer to the arcade football genre? Not a great deal if truth be told. The play is quick and the controls work in a similar fashion to Sensible Soccer - the aftertouch, short and long passing work OK, but the major problem with the game, particularly in two-player mode is the



You can adjust the height and direction of corner kicks, but it takes a bit of practice.



The action replay is excellent and works in similar fashion to a video recorder.



At the end of the game, there's a stats round-up just like you get on Sky TV.

way the ball is almost glued to the player's feet. And it is soon apparent that the best way of scoring is to embark on a mazy dribble upfield á la Charles 'Charlie' Charles (of Harry Enfield fame) before rounding the keeper and stroking the ball into the back of the net. Fortunately, the computer teams don't allow you such luxury, but all the same it's a major flaw, particularly because the goalies seem rather fallible.

The defending player is denoted by an arrow over his head and you have no means of controlling who that player is - the arrow changes automatically as the attacker comes forward. In two-player mode, this allows the attacker to run at defenders, wait for the arrow to change and then run off. A bit of a farce!

Goals galore

Tackling seems to be limited to the long slide - it's difficult to muscle in and take the ball off your opponent. And Sierra have thrown in gimmicks which in most cases serve to annoy rather than enhance the game, particularly the fiddly shot and throw lines which appear at free-kicks and throw-ins. But, as far as goals go, Sierra Soccer is possibly the most spectacular of football releases to date. You can score the most amazing strikes although you wonder quite how you managed it.

There are all the usual tournament, friendly, up-to-eight human player options and you can practice penalties and free kicks, but there are one too many flaws to make Sierra Soccer a serious contender.

Steve Bradley



VERDICT

1 2 3 4 5 6 7 8 9 10

because it's far too easy to drib-

ble past a real-life opponent.

to keep you coming back, yet

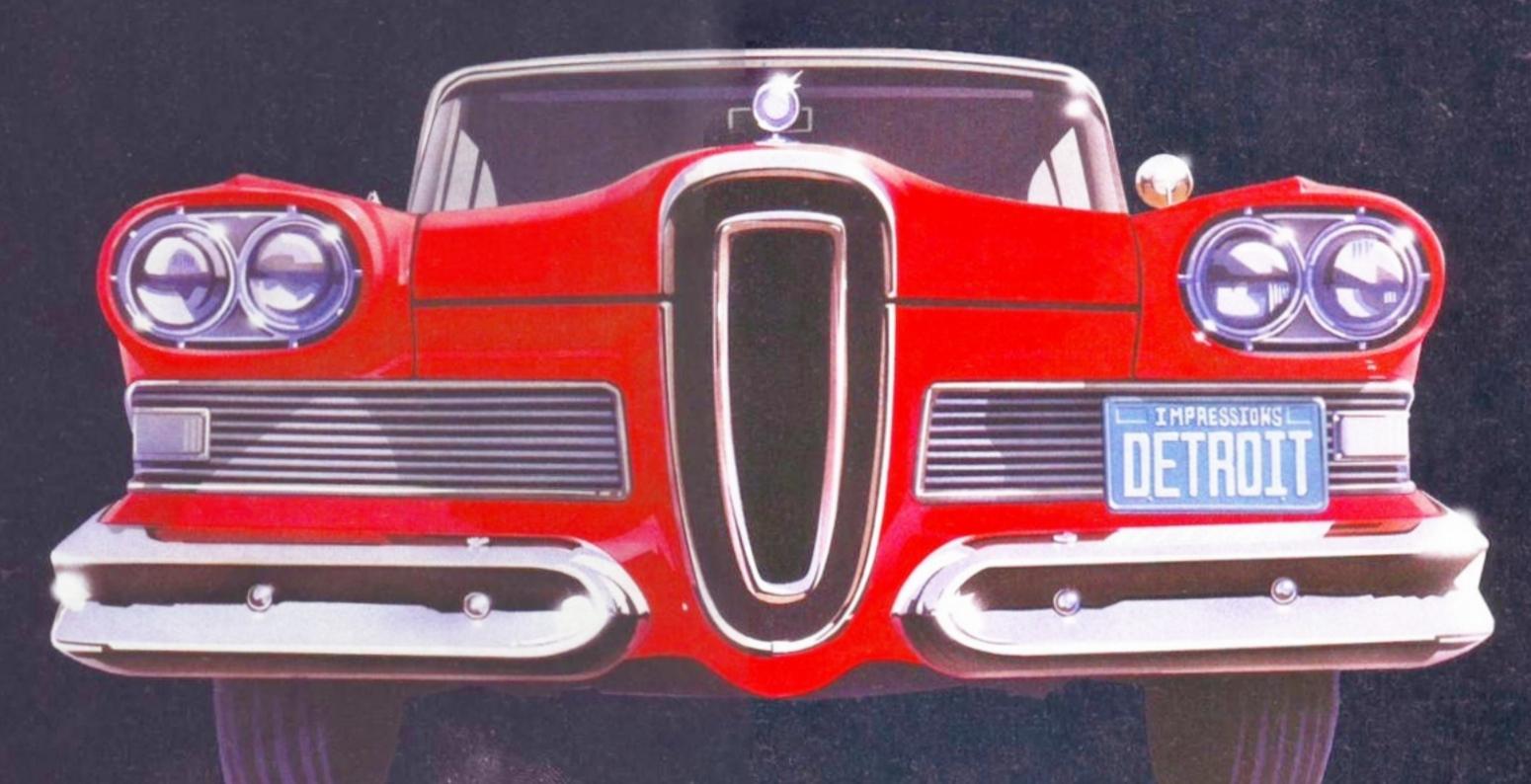
the great goals are a bonus.

PLAYABILITY

Better in one-player mode

"A couple of fatal flaws in the programming detract from an otherwise fast and playable football sim. Sierra Soccer doesn't break boundaries but in one-player mode, it's a decent enough performer. "

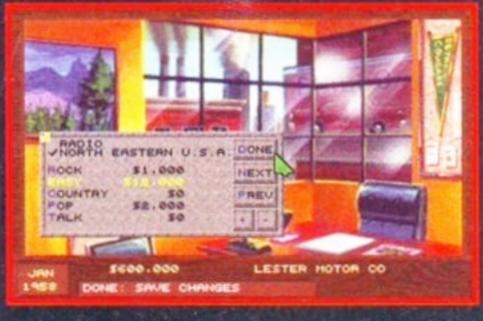




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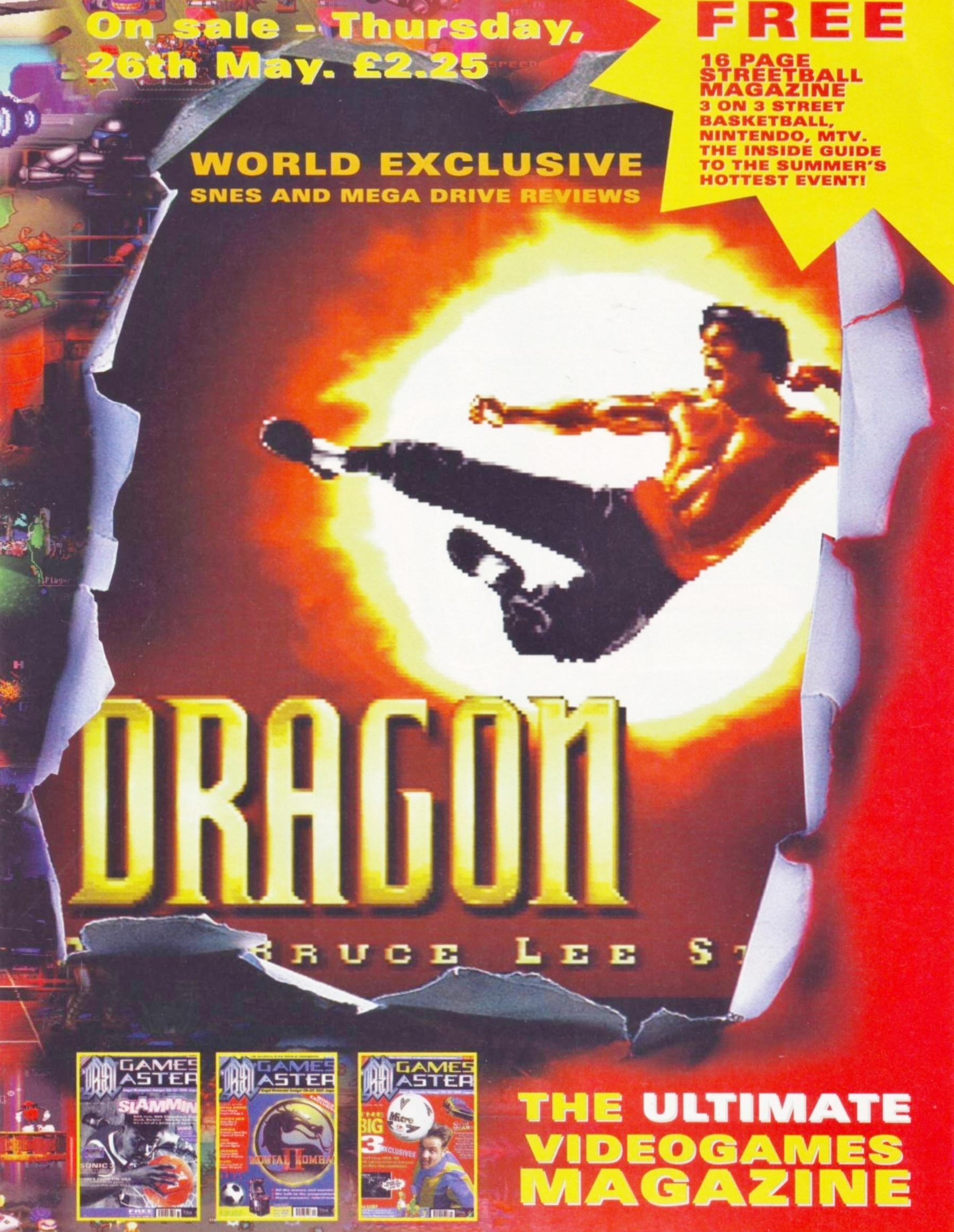


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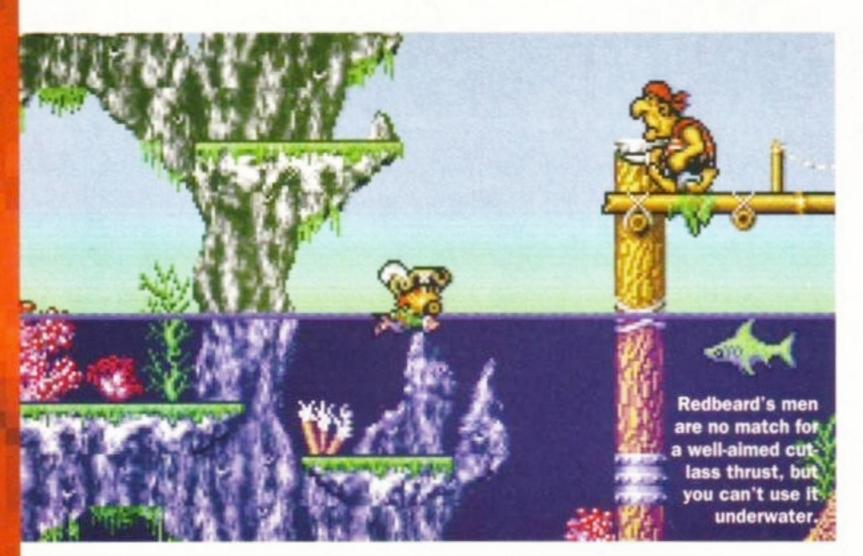
Impressions

Committed to Excellence in Strategy Entertainment

IBM PC VGA Screenshots









The many secret rooms contain a wealth of bonuses and precious bags of gold.



Devil's Island is home to Captain Flynn's enemy Redbeard and his motley crew.

TRAPS 'N' TREASURES

hiver me timbers! It can't be easy being a ruthless pirate with a name like Jeremy. For a start none of your enemies are going to take you remotely seriously and it must be hard convincing your crew you mean business when your mum sews name tags into the back of your favourite fisherman's jumpers.

Still, Captain Jeremy Flynn is indeed a pirate and commands a crew of nine men steering a ship through the shark-infested waters of the Indian Ocean. It's all plain sailing until Flynn's ship is attacked by the fearsome Redbeard and his cutthroat band who kidnap the crew and make off with all the treasure.

To add insult to injury, Flynn's ship is then caught up in a wild tropical storm and is wrecked off the coast of Devil's Island, Redbeard's well-defended home.

Traps 'n' Treasures is a cutesy platform adventure which places you in control of the hapless Flynn. You have to rescue all nine members of your crew, collect as much treasure as you can and put an end to Redbeard's pirating career. The game consists of four massive levels:

Threadneedle Lagoon, Skull Grotto, The Temple and The Fortress each full of nasties, puzzles, traps and secret rooms.

To help you on your journey across Devil's Island there are various weapons, power-ups and keys as well as a handy shop containing a ragbag of useful items needed on your voyage. You can even get involved in a spot of gambling with the shopkeeper if you fancy your chances as a dice whizz.

Planks for the memory

Traps 'n' Treasures is frustrating. It's going to take you a couple of weeks just to complete the first massive level. The reason? Being an island, the game world is surrounded by gigantic puddles of sea which Flynn has to swim around.

Now, the problem with water is that it slows you down, and you can't move around as easily as you can when you're bouncing about on dry land.

Unfortunately, while you're floundering in your water wings, all the undersea creatures are homing in and making your life an abject misery.

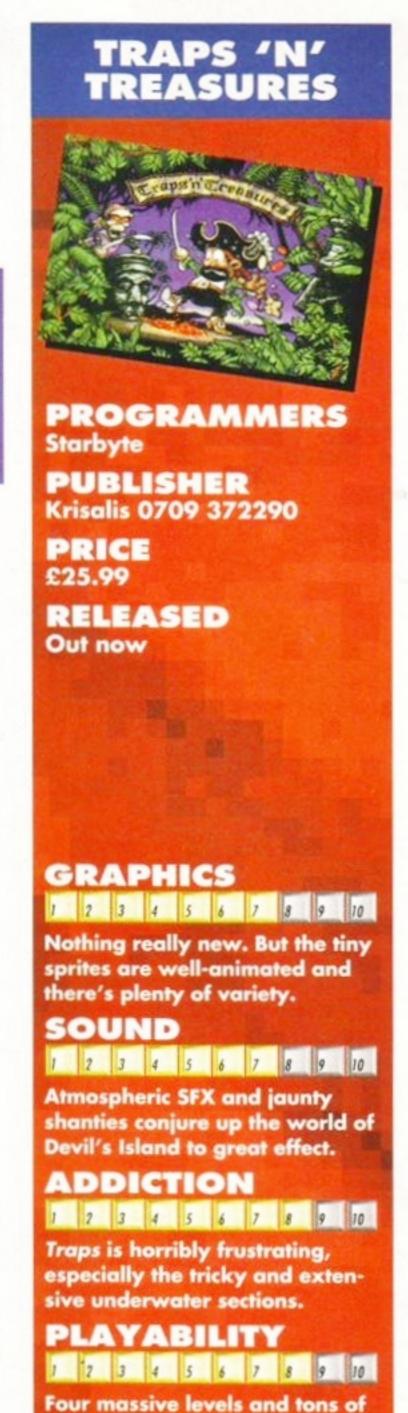


Redbeard has heartlessly imprisoned the nine members of your crew in various locations around Devil's Island.

Worse, you can't use your trusty cutlass under water to fend off the sharks, fish, and crabs who want a slice of flesh. These handicaps add up to one thing – you die... a lot. Extra food, health and restart points help, but often they aren't enough and you end up staring despondently at the Game Over screen.

Still there's nothing wrong with a challenge, right? And Traps 'n'
Treasures offers plenty for you to sink your teeth into. Rescuing crew members is relatively easy, but there are plenty of fiendish puzzles to overcome and you find yourself trying again and again to reach just that little bit further. Maddening, addictive and intensely enjoyable.

Rob Mead 🏵



"Although Traps 'n'
Treasures may be
just another cutesy
platform game,
there's enough
originality buried
deep in its innards
to keep you coming
back for more."

puzzles mean this game's going

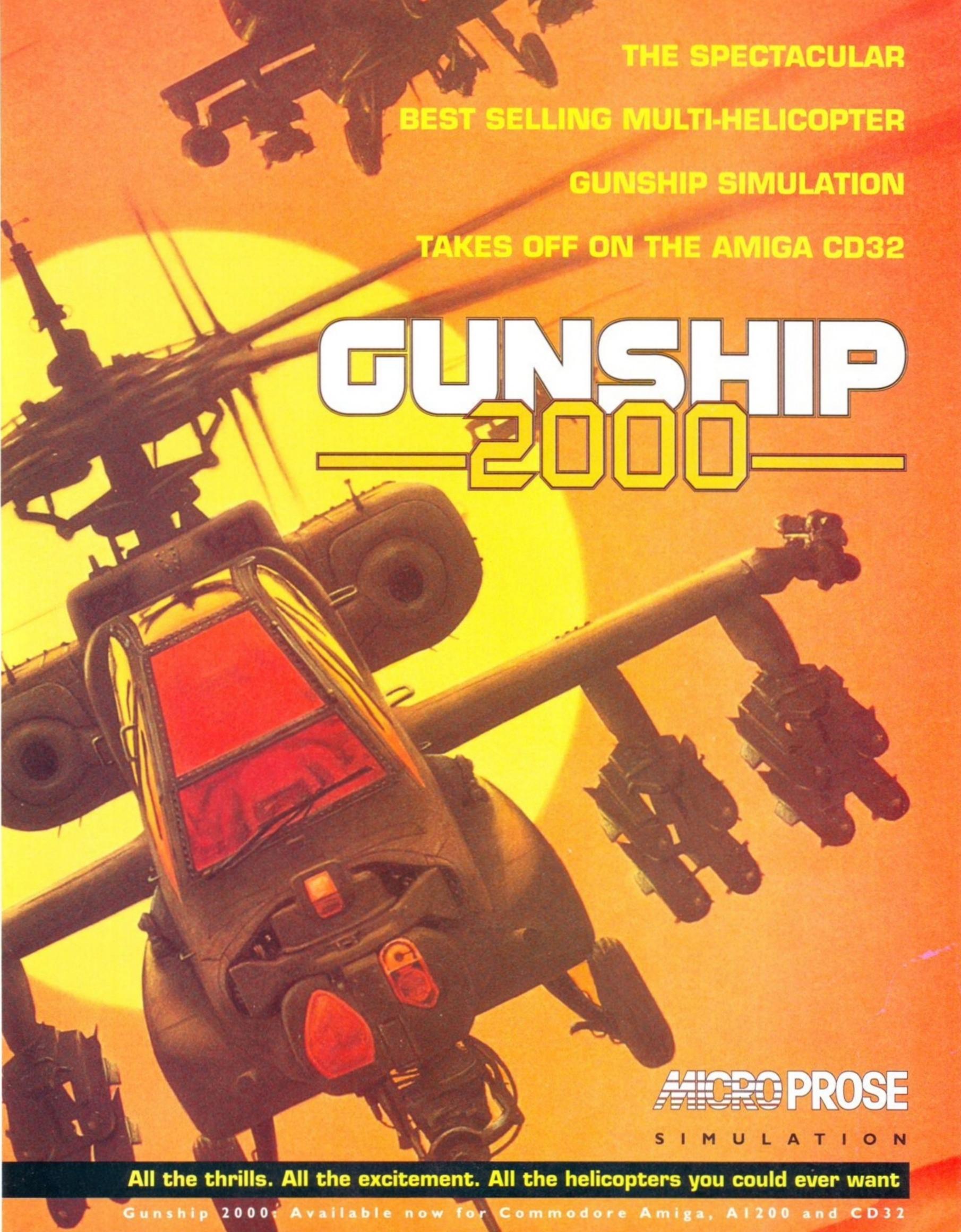
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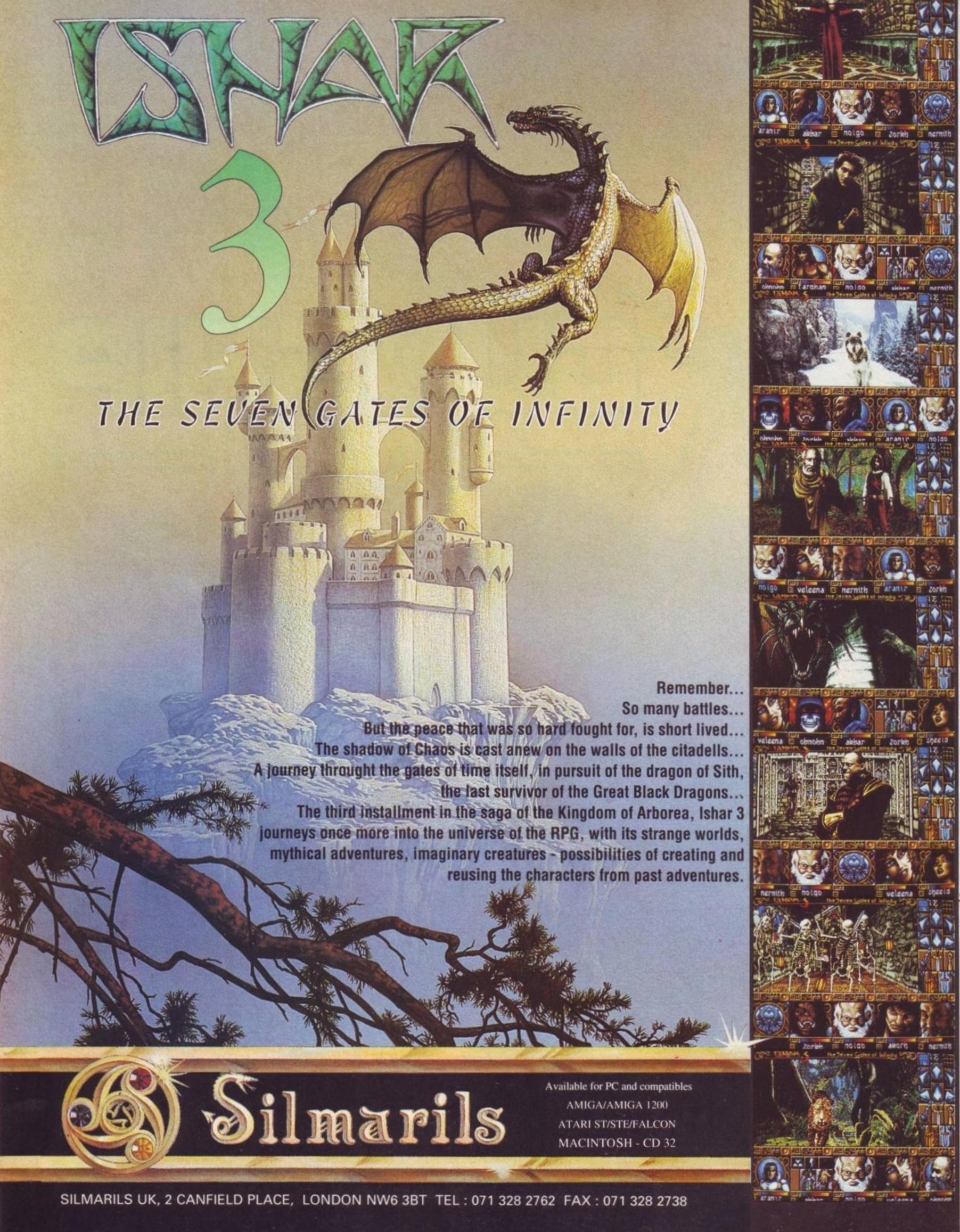
to take you weeks to finish.

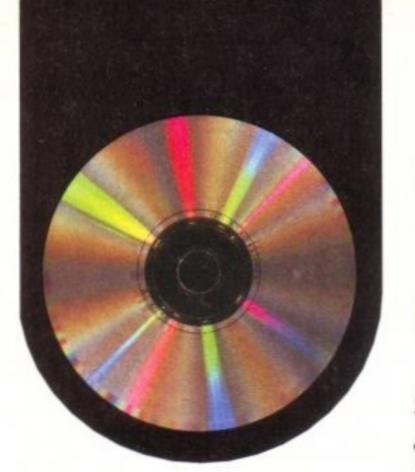
82%



If this is Level Two it must be time for Skull Grotto, favourite haunt of regenerating skeletons, bats and scorpions.





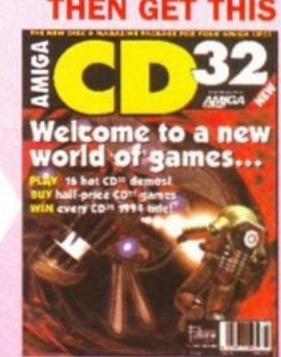


GD32 GAMES

Steve Bradley sets the discs spinning for the latest Amiga CD releases.

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Team 17 0924 201846 ■ £29.99



Impressive AGA backgrounds, a vast array of characters, each with special moves characterise Ultimate Body Blows - one of the best beat-em-ups ever.

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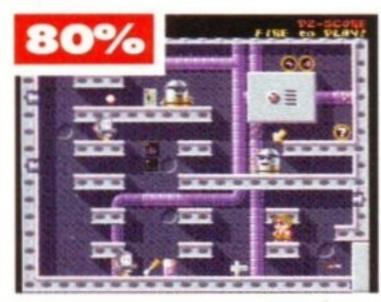
A swift kick in the ribs is always good for starters. It doesn't look like the chap felt

backgrounds, plus 16 music tracks and you end up with the Amiga's best

The participants are varied and all have special moves. Despite the hefty £30 price tag, you won't need to extend your pugnacious selection further.

elcome to the CD³² round-up and with-out further ado, let us jump straight in with **Striker** (Gremlin, 0742 753423, £29.99, 58 per cent).

Football is all the rage at the moment – pre-World Cup fever, if you will – and Striker boldly pronounces on the box that it: "... is probably the closest anyone has come to creating a realistic soccer simulation". This is simply not true. If the box had stated: "Striker is possibly the closest that anyone has come to creating a ridiculously fast soccer simulation," then fair enough.



Pick up the pick-ups and avoid the nasties in the canny platformer, Naughty Ones.

And check out the price – 30 knicker. The game was recently released on floppy for under a tenner, but adding a few audio tracks to the CD version is hardly worth an extra 20 quid. Having said

all that, Striker is a reasonable footy game, particularly in two-player mode. The teams are all international and seeded and there are the usual tournament options, but this still doesn't justify its price tag.



The fastest football sim of them all, Striker leaves even Ryan Giggs on the blocks. Unfortunately, it's over-priced and rather too quick to be really playable.

Two games that on the surface offer little, but with a bit of perserverence turn out to be worth exploring, are **Naughty Ones** (Interactivision, 071-702 9391, £25.99, 80 per cent) and **Donk!** (Supervision, 0438 840004, £25.99, 77 per cent).

At first glance Naughty Ones looks like a decidedly average platform game in which you have to steer a couple of spritely lads through various rooms, picking up bonuses and avoiding hazards such as clocks, robots, dripping acid and plasma death bolts.

The game seems to be a straight port of the A1200 version, which scored a thumping 86 per cent in AF58, which means it's tricky, addictive, frustrating, fiendishly moreish, refreshingly simple and a smashing two-player romp.

Donk! the platform game starring a Samurai Duck which scored a tasty 85 per cent in AF53 has been tweaked for its appearance on CD³². Sadly, the animated sequences and slightly different way in which the levels are laid out don't

Continued overleaf

GUNSHIP 2000



MicroProse 0454 326532

£29.99



Helicopters. Big helicopters. That's what these gunships are. And powerful they are too. This is not only for the blow-em-to-bits folk, for there is also heaps of techie detail and missions galore. It looks great too, particular now it's in 256 colours.

Add to that some pretty rendered animation sequences and the fact that it's six quid cheaper than when it was released on floppy. By jove, that's fair play.



Whether you like to discover all the technical details of an Apache chopper, or simply blow other 'copters out of the sky, *Gunship 2000* has something for you to get into.

There are rather good rendered animations in Gunship 2000 which add to the atmosphere before you head off to kill folk. PASSED SET OF THE PROPERTY OF

really add to the gameplay, and seem to slow down the loading time.

The Let's Go message that flashes up before new levels is particularly annoying, because what it really means is: Let's Hang Around For A Bit And Stare At The Ceiling For A Short While. Despite this (and the graphics, which don't look any better), Donk! is worth perservering with because it's a testing and compelling platformer.

More prehistoric antics are on offer in the platform/puzzler **Chuck Rock 2 - Son Of Chuck** (Core Design, 0332 297797, £29.99, 79 per cent) which opens with an excellent animation recounting a tale of love, jealousy, revenge and car man-

ufacture. Chuck has been kidnapped by evil rival, Brick Jagger and Chuck Junior must negotiate six tricky levels in order to rescue his Dad.

It's simple enough fare; bright cartoony graphics and many an enemy to clobber with your club – and check out the huge end-of-level bosses. However, it is quite similar to its predecessor and the gameplay becomes a tad repetitive after a while. But heck, it's entertaining, if expensive.

Rolling in some five pounds cheaper than our Chuck comes the eager **Beavers** (Grandslam, 081-680 7044, £24.99, 67 per cent) and it's an unusual platformer in that you have to constantly stay on

the move because the screen scrolls continuously – slow up and you're consumed by the edge of the screen. It's about as easy to do as standing on a log.

Again, it's a kidnap scenario – this time Mrs Beaver – and despite your doubts about wanting to rescue the old bird in the first place, you are required to traverse marshland, a graveyard and various other places of scenic interest. Beavers is a bouncy affair with simple graphics and some pretty effects, but as far as lasting interest is concerned... oh, I've forgotten what I was going to say about it.

Well here's a cute little number.

Fire And Ice - The Adventures



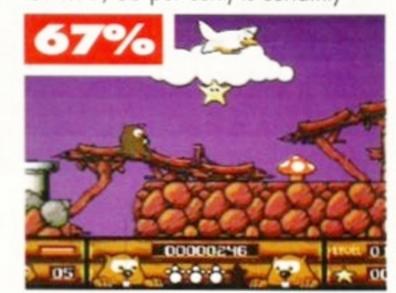
A Samurai duck with an appetite for scaling platforms, *Donk!* is an unusual, yet addictive, platform game.

Of Cool Coyote (Renegade, 071-481 9214, £24.99, 85 per cent) sees Cool off in search of abandoned pups across the world. With 30 levels to tackle, power-ups and bonuses to collect, he's got a whole new world to discover.

The graphics are beautifully drawn, Cool is smooth and controllable – he has a gun which fires ice pellets and it works great in the cold countries, but not so good in warmer climates. The levels are both interesting and varied and there's plenty of humour for those that like that sort of thing. One of the best platformers available for the machine.

The film has disappeared and the premiere is tomorrow. And if you don't retrieve it pronto you'll get the sack. Or something. With six film sets to explore including sci-fi, and black and white and horror,

Premiere (Corkers, 0332 297797, £14.99, 83 per cent) is certainly



Appearances can be very deceptive. Despite it's cute exterior, *Beavers* is a tough plaform puzzler.



When the evil Brick Jagger kidnaps your Poppa, there is only one course of action to take. Son of Chuck must negotiate his way through six tricky levels to rescue him.



Platformmeister Andy Braybrook is responsible for the adventures of Cool Coyote in Fire and Ice. And he also knocked up Rainbow Islands. And Uridium 2. And...

FRONTIER - ELITE II

Gametek 0753 553445 229.99



With the keys to your shiny new Eagle long-range fighter in hand, it's time to boldly go where no Amiga CD³² has gone before, meeting strange new races and selling them cheap junk for large sums of cash.

This follow up to the classic space trading game *Elite* allows you to explore the universe and seek your fortune any way you wish. Alternatives include piracy, interstellar trading or interstellar assassinations. The universe is your oyster.

Anyway, it's all great fun, albeit in a slightly confusing way. The only differences between this and the floppy version is that the controls have been adapted to use the controller (although you can use a keyboard or mouse if you have one) and the ability to save to the non-volatile memory. It's not difficult to use the controller, although it does take a while before you feel

LEIN

like you're completely in control. Also, you can only save the game when your vessel is docked. One good thing is that the bugs (such as the infamous passenger-carrying ship selling bug) which bedevilled the early releases of this game all seem to have been fixed.

You still have the same cheesy music, no texture mapping and no great increases in speed. Small grievances aside, it's a bloody great game which will probably keep you going for years to come.

Any references to 2001 are purely coincidental, and the fact that the program plays

of life's odd coincidences. Honest.

Strauss' Blue Danube when docking is just one

The level of detail in *Frontier* is astounding. The cities even have individual buildings, and you can fly between them. However, the texture mapping on buildings and ships found on the PC version is, regrettably, not present.

one of the most original previous platform/puzzlers around. The bad-noissed dies all relate to the particular sets repetit they're in – Tumbleweed and Pesky you go 'injuns' in the Wild West and it price

85%

could almost be Bubba 'N' Stix in a

The latest in a long line of excellent Amiga golf games, *Ryder Cup* enables you to play in a team against the Yanks.

previous incarnation. However, connoisseurs might find it a tad repetitive in the gameplay stakes, but you get value for money with its price at 15 sovs.

More frenzied platform frolics as



Two games on one CD. Let's hope it catches on. Some of the puzzles you have to solve are positively inhumane.

Zool 2 (Gremlin, 0742 753423, £29.99, 87 per cent) hops in with extra levels, 10 music tracks and some natty 3D animated sequences. It's not wildly disimilar to the original, but that was so good it can't be a bad thing. A treat.

Golf, a good walk ruined?

I think not. **Ryder Cup** (Ocean, 061-832 6633, £29.99, 85 per cent) is the team tournament played between Europe and the USA.

Visually, it's superb (speedy graphic redraw), there are three different control options and four courses to tackle. You can join Seve and the gang or simply play singles.

However, although *Ryder Cup* plays nicely it still doesn't quite match the

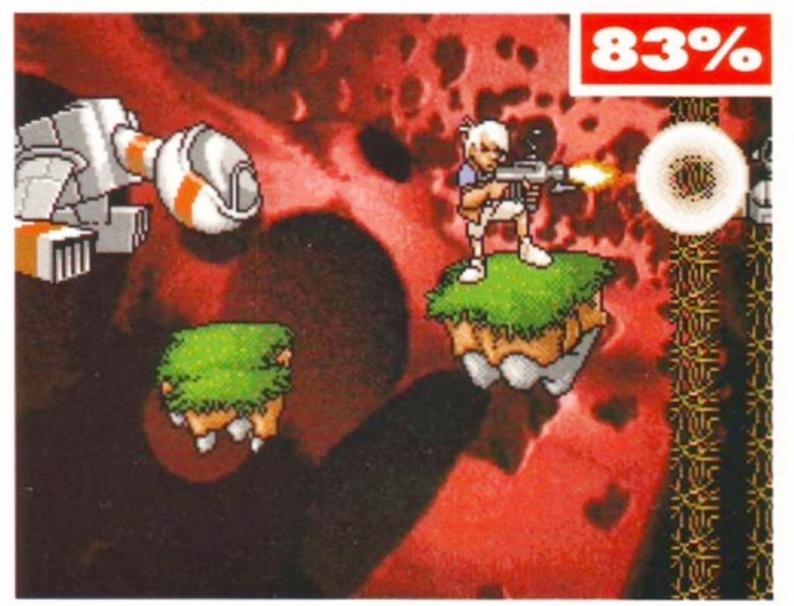
ageing, but classic, PGA Tour.

A platform/puzzler in the Lemmings mould, **Humans** (Gametek, 0753 553445, £29.99, 78 per cent) is an evolutionary game where you attempt to guide Man through a whole pile of levels discovering a variety of helpful delights – such as fire, the wheel and rope – along the way.

Loads of tricky puzzles have to be solved before you can progress between levels. And you'll encounter many obstacles along the way including burning bushes which you dispose of using fire. The controls can be a bit fiddly at times, but with both *Humans* versions one and two included, it's pretty good value.



Zool's back, only this time he's got a female companion and a dog to help him out. If it's frenzied platform action you're after, Zool is the quickest of them all.



The premiere is tomorrow and rookie director Clutch Gable is in trouble. Search the film sets and find the film cannisters in this cartoony relation of Bubba 'N' Stix.

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RE-RELEASES

Stephen Bradley checks out all the old favourites and the AGA versions of more recent games in this month's re-releases.



If you can read the manual then you should have no trouble with the game. Tornado also has a tasty head-to-head option which offers you and a pal some mortal combat.



The original game of the Gods, Sim City offers you the chance to build and run the town better than your local council. And there is a plethora of historical scenarios too.

elcome to another exciting episode of re-releases. This is the part of the mag between the CD³² reviews and the GameBusters pages where we pick the best of those games that have been dusted down and given a new lease of life.

Many of them are classics that are now available at budget prices, so if you've just bought an Amiga check out some of the truly great games that you can pick up for a snip, and some are AGA versions of A500 games.

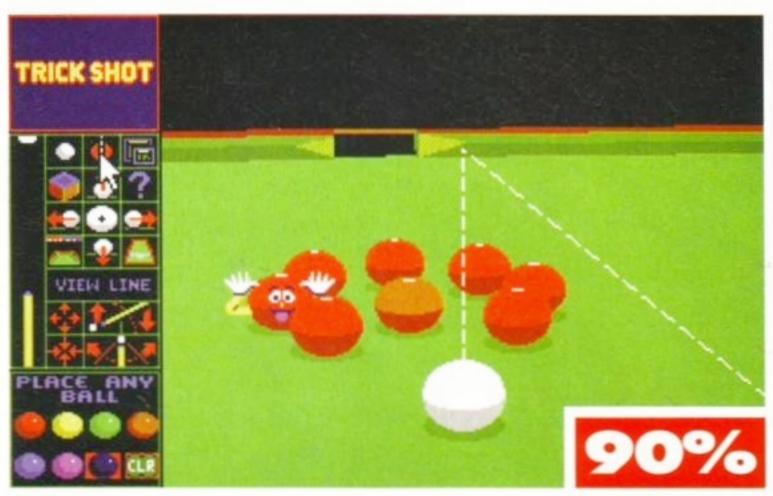
Many of the games featured here are real high-fliers and none more so than that storming flight sim **Tornado AGA**, (Digital Integration 0276 684959, £34.99), which comes with a 332-page manual that's so large that there is even a

chapter about finding your way around the manual.

The graphics have been enhanced on this AGA version, and it feels a tad quicker than the original game. But at £35 you'd have to be keen on flight sims to hand over the readies.

On the plus side *Tornado* is one of the more sophisticated Amiga flight sims you're likely to come across, and there are hosts of options and in Combat Mode you can play head-to-head. Existing owners of the A500 version can upgrade to the A1200 version for £9.99 by sending their original disks to Digital Integration. The non-AGA version of *Tornado* scored 80 per cent when it was reviewed in *AF56*.

You thought it was all over, and the domestic football season is, now. But that doesn't stand in the way of



Jimmy White – the people's champion, some would have you believe. Archer MacLean's snooker sim is the finest and most detailed of them all. Go out and do it.



A classic RPG from the chaps that recently brought us Beneath A Steel Sky, Lure Of The Temptress is an excellent open-ended adventure game. And now it's only 15 quid.

The Championship Manager Compendium (Domark 081-780 2222, £27.99, reviewed AF48 82%, upgrade not reviewed).

Actually it's a bit sneaky this. The football season comes to a close and Domark release Championship
Manager '93 together with the '94
Season Upgrade so that all the info from the start of last season is up-to-date. But the season has finished, so come August when the whole thing kicks off again, there will be a load more changes after the Summer transfer merry-go-round making this out of date. Aarghh.

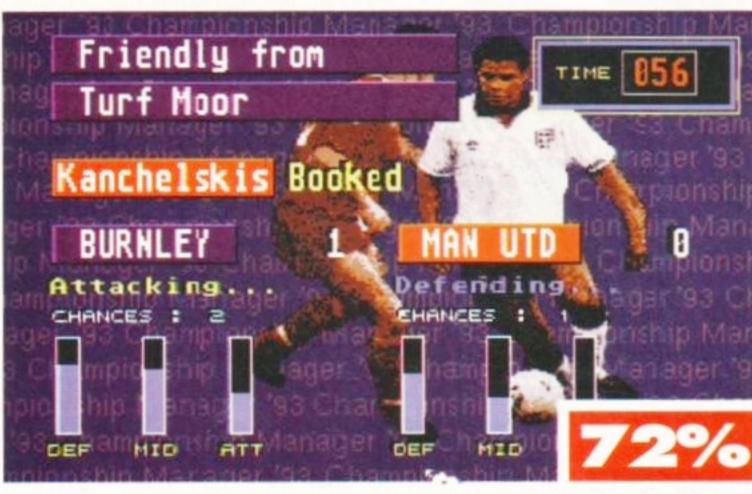
Anyway, Championship
Manager is a good management sim
with plenty of detail and it looks
attractive. But why Domark couldn't
have simply put this lot on to four
disks in one box and cut the price
accordingly is a bit of a mystery. My
advice is to wait for Championship
Manager Superleague which is due
out in August.

Remember Comic Relief? It was more of a sigh of relief when everyone put their red noses away, but it brought us **Sleepwalker** which helped raise money for the charity bonanza. Anyway, the A600 and A1200 versions are back with us (Hit Squad 061-832 6633, both £9.99, reviewed AF44 91%, A1200 version reviewed AF47 89%)

It's an attractive platform puzzler, original and playable, and some of the money is still going to charity even though it's now down to a tenner. Plot: boy goes sleepwalking and you, as his protective pup, must stop the young-feller-me-lad awakening from his slumber. Plenty of levels, pretty sprites and if you've got an A1200 you can get the enhanced version for the same price.

If you yearn to play a character called Kavodac and to waggle a joy-stick at the same time, then the Bitmap Brothers' role-playing game

Cadaver is just what you need (Kixx XL 021-625*3311, £14.99,



Football management sims remain incredibly popular. The Championship Manager Compendium is a bit late in the day because of the Summer transfers.



Cadaver is an unusual role-playing game in that hand-to-eye co-ordination is a necessary skill, rather than the usual mouse-clicking that goes with the territory.

reviewed AF17 83%). There are plenty of puzzles to solve and monsters to mash. Also included in the package is the Pay Off disk which contains over 200 extra dungeons and rooms to explore. Not really for fanatics but worth a look.

Poor old Jim – that elusive world title. Better luck next year eh? Still, at least Archer MacLean did a great job programming Jimmy White's Snooker (Hit Squad 061-832 6633, £14.99, reviewed AF26 91%) and it's the classic Amiga snooker game. Incredibly detailed yet playable, seriously approached but with humorous elements, the whole package is smooth and the 3D view is excellent.

JW Snooker is good value at £15 but it's also on the £30 Award Winners Gold compilation along with Sensible Soccer, Zool and Elite. And that's even better value.

A gaming landmark, **Sim City** (Hit Squad 061-832 6633, £14.99 reviewed *AF6* 92%) is now some five years old but its influence remains undimmed through the, er, passage of time.

Whatever, it's a famous god game and the idea is to design and run a city, keeping all the facilities going and the inhabitants happy. But nobody said running a city was easy and you have to collect taxes, attract investment, keep an eye on the crime rates and generally make sure thateverything's ticking over nicely in the old metropolis.

If creating your own city seems too much like hard work, you can always try running a ready-built one and these include such bizarre scenarios as San Francisco 1906 (earthquake city) and Tokyo 1957 (large monster attack).

Graphically it all looks rather basic by today's standards, but pretty pictures aren't everything and Sim City remains a tremendously playable game. And that's what really counts, right?

Another hugely influential game that's now available at a budget price is Revolution Software's **Lure**Of The Temptress (Hit Squad 061-832 6633, £14.99, reviewed AF36 92%).

Who is this temptress? And how can I lure her? "How 'bout a nice cup of tea, pet?" "Geedaardovit, you." Set in the rather Gary Larsonesque-sounding Turnvale, Lure Of The Temptress has a huge gaming area to explore, with loads of odd characters wandering about the shop and a decent dose of humour.



MiG-29M Superfulcrum: the sky's the limit as you take control of a Russian fighter plane and wing your way through the stratosphere a shootin' and a bombin'.



Sleepwalker: you are the faithful hound who must keep his owner out of danger as he somnambulates his way around the levels in this Comic Relief platformer.

And one of the best things about the game is that you can construct sentences to interact rather than just click on a set response. The plot itself is full of the usual dungeons and monsters; the idea is to de-throne the evil lass and free an honest, decent goody goody. Visually it's excellent and well recommended.

MiG-29M Superfulcrum
(Hit Squad 061-832 6633, £14.99, reviewed AF29 89%) is the follow up to MiG-29 and basically it's more of the same flying lark and then some more.

If flying superfast Russian craft is your thing then you won't be disappointed. Smooth graphics and fabulous air-to-air combat routines, combined with the opportunity to fight a full war ensure, that there's enough action for those who like a scrap. But having said that, it's certainly more for fans of the genre than for the casual boot-up and blow-emaway types.

MAKING THE MARKS ADD UP

You may be wondering why the games in Re-releases have got two marks – one in the text and one on the picture. The mark in the text is the one that was given when the game was originally reviewed in *Amiga Format* and the score on the picture is what we now consider the game to be worth.

The reason the marks are occasionally very different is that we take the price of the game into account, how it's aged, and whether it's been superseded by a new generation of better or faster games. For example, if a new AGA version is not very different to the old A500 game, but costs £5 more, it will be marked down. But if we felt a game was overpriced when it was originally released, it is likely to score a higher mark when it is released on a budget label.

Due to the exchange rate, or manufacturer's changes or due to current RAM shortage, some prices may alter, either up or down, during the several weeks between going to press and the end of the month of issue.

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GIGIT BUSIES ANIGA GANES

MORTAL KOMBAT

Reviewed AF55 74% Virgin 081-960 2255



Goro's four arms make him a great hit with the girls at Madame Cyn's celebrated parties.

Recently I found a few cheats for *Mortal Kombat* on the A500 and A1200. For the first one type in Vampire on the Ethical Code screen. Try with or without Caps Lock on. When the writing goes white and a chime sounds, the blood is off.

The second cheat is as follows: type in Dullard cheat Dullard cheat Dullard cheat Du on the Main Selection, not the

Options Screen. You'll notice under the two option lines there will be a new one called Cheat Mode. Choose this and you will be given a Diagnostics Screen where you can change the preferences of your game, for example which item you chop, whether you play Reptile without double flawless or fatality, enabling you to reduce your opponent's energy to a quarter or see the biographics at the end.

Bobby Mufti, Ilford, Essex

PINBALL FANTASIES AGA

Reviewed AF57, 80% ■ 21st Century 0235 851852

To get the extra ball (the fourth, at the end of the game) in one-player mode on Partyland, hit the space bar as many times (in rapid succession) as the number on the display panel indicates.

John Morgan, Norwich, Norfolk

PREMIER MANAGER 2

Reviewed AF53, 89% Gremlin 0742 753423



When you've finished kitting out your players it's time to upgrade your stadium.

Just a short letter to tell you of some useful tips for *Premier Manager 2*. Choose the formation 4, 2, 4, have Tackling on Normal, Passing on Low, Marking set to Nearest Man, and Shoot on Medium Range, and play a sweeper system. By using this you can take on a team that is much better than your side and still win.

When buying new players always buy players without a contract, so you do not have to

pay the club. Always give the amount the player asks for and then a generous wage and you should always get the player. By using the scout, you can choose the type of player, and most of the time the scout picks players without a contract.

Robert Ince, Leicester

FRONTIER: ELITE 2

Reviewed AF54, FG90% ■ Gametek 0753 553445

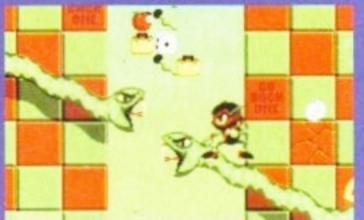
Here is a tip for *Frontier*. When you have bought yourself a big enough ship, such as a Panther Clipper, and you want some serious firepower, equip it with a small Plasma Accelerator and fit a Laser Cooling Booster to it.

Although the manual states that the Cooling Booster has no effect on Plasma Accelerators, it will keep them cool at all times allowing you to fire a constant stream of energy – useful if you are a really bad shot.

Ian McVickers, Denny, Stirlingshire

ZOOL 2

Reviewed AF55, FG93% Gremlin 0742 753423



Zool hated Sundays because his mum always made him play Snakes And Ladders.

On Zool 2 in Tooting Common Zone 1, go to the end of the ice strip with the balls and shoot to the right, a brick appears. Shoot again and another brick appears. Repeat this process until you see a platform, then jump on to this and collect the goodies.

Alexander Ingram, Edinburgh

GAME BUSTERS

We'll help you to help yourself, make it through the night, lunch hour and the days between those Red Dwarf re-runs. Just send in your cheats and tips.

SECOND SAMURAI

Reviewed AF53, FG91%

Psygnosis 051-709 5755

Here are the level codes:

Zone 2: RFFIZIAC

Zone 3: ZOHNAGA3 Zone 4: VC5UPZWE

Zone 5: N6KJXWDR

Zone 6: T3DYTJ12

Zone 7: CUTUJMGI

Zone 8: VOOXBC2T

Zone 9: SVMB4A1F Zone 10: OGPHPGGH

Please note that I may have made a mistake when writing these codes down.

A letter 'I' could also be the number 'I' and a letter 'O' could also be the number 'O' (zero).

Michael Carter, Georgeham, North Devon



You're going to need all the sword-wielding scores you can muster to defeat this end-of-level meanle.

POPULOUS

Reviewed AF47 89%

Ocean/Hit Squad 061-832 6633

When you're playing *Populous*, if you are being beaten by the enemy, simply go to Paint Map in the World icon and get rid of the baddle's land. Once you have done that, select Play Game from the World icon and you should have won the game.

James Crow, Ipswich, Suffolk



Take the heat out your enemy's battle plans with a spot of well-intentioned cheating.

F-117A NIGHTHAWK: STEALTH FIGHTER 2.0

Reviewed AF54, FG92%

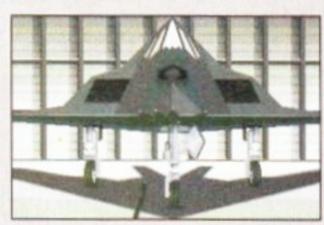
MicroProse 0454 326532

I came across this tip while on my way to destroy the Palace at Baghdad. If you target an object in Ground HUD mode on the Trackcam and press 'U', the target will be destroyed without using any

weapons and at any range. If the target is the primary or secondary you still get the points for achieving the objectives. This cheat only works on ground targets, not airborne targets.

Alan Gaulton, Wrexham

Patrol the world's trouble spots with this excellent flight sim from MicroProse.





Each month, the sender of the best full and complete Gamebusters players' guide is entitled to a £25 Amiga Format mail order voucher or a Gremlin game of their choice.

BENEATHAS



If you're struggling through the futuristic world of the brilliant graphic adventure *Beneath A Steel Sky*, then try taking this advice from Revolution Software, developers of the game. Part Two of this complete solution will be in next month's *AF*.



Foster eavesdrops on Reich's conversation with Hobbins and begins to unravel the mystery surrounding his abduction.

et the rung from the top of the stairs on the left of the gantry, then use it on the fire door to the right. Watch the animated sequence. When the security officer has gone, go back into the recycling plant, down the stairs and then go right towards the lift room.



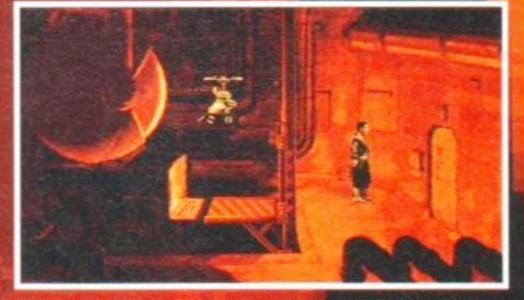
Hobbins the handyman is a useful source of information and the proud owner of a spanner and unsavoury sandwiches.

Examine the transporter robot, then examine the junk to reveal a robot shell. Use the circuit board from your inventory on the robot shell to activate Joey. Talk to him. Now stand on the lift to activate the alarm. As soon as Hobbins the workman comes in and switches off the alarm, go right into his workshop, open the cupboard door and take the spanner from the bottom shelf. Ask Hobbins where you are, then keep talking to him to find out what's wrong with the transporter. Go back to the lift room.

Ask Joey to start the transporter. The transporter now disappears and comes

back with a barrel and places it on the lift. As soon as the lift goes down, jump into the hole and this will take you down to the furnace room.

Examine the lock on the furnace room door. Ask Joey to open the door when he flies into the room. Officer Reich enters. Watch the animated sequence. Now examine Reich's body to find an ID card and a pair of dark glasses. Go through the door.



"Blimey, it's like an oven in 'ere." "You're in a furnace room stupid." "I dare you to open the door and let some fresh air in."

WALK ON BY

As soon as you reach the top of the stairs, go right along the walkway, past the lift and into the pipe factory. Try to walk through to the second factory. When Anita asks who you are, tell her you are a factory inspector. Talk to her again and find out the correct title for safety inspectors. Keep talking to Anita until supervisor Lamb walks in and sends Anita away. Tell Lamb you're the auditor.



Don't waste time worrying about the key and WD40 this guy nicks off you, he's got serious designs on your jumper.

When he leaves, go to the second factory. Use the spanner you collected earlier on the cogs in the machinery. Retrieve the spanner. Try to go into the storeroom on the left. Tell Joey to go into the storeroom. Go back to the first factory and use the spanner on the welder robot. Ask Joey if he would like a new shell, then ask about the stores. Return to the second factory and tell Joey to disable the fuse box in the storeroom. You can look through the window of the storeroom to see what Joey is up to. Enter the storeroom and lift the gangway on the floor. Get the putty (plastic explosive) which lies under the gangway.



Like Lure Of The Temptress, Steel Sky enables you to peek through windows and crevices into the rooms beyond.

Leave the factory and look at the cable to the right of the entrance. Ask Joey to cut the cable, then get out of his way. Go to the power plant at the far left of the walkways. Talk to the caretaker. Use the spanner on each of the two buttons beneath the pipes on the right. Now tell Joey to press the right button while you press the one on the left. The caretaker storms out. Turn off the switch on the control panel to the left. Remove the light bulb and put the plastic explosive in



Get Joey to press the button on the right while you use the one on the left, and you create a handy diversion for the old bloke.

EEEE SKY

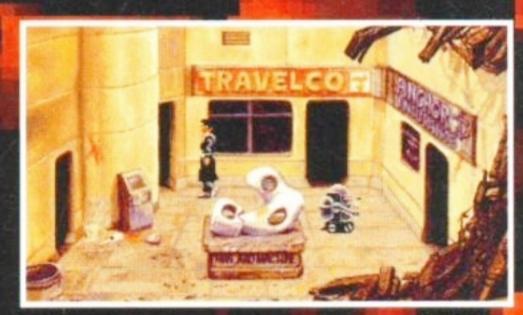
With Joey installed in the welder robot and the power reactivated, Foster can take a trip in the lift to the next level.

the light fitting. Flick the switch back on to blow open the doors of the control panel. Pull the right power switch to restore power to the lift on the walkway. Go back to the factory entrance. Use Reich's ID card on the lift slot and go down to the next level.

You are now in the Belle Vue area of the city. Pick up the cable which fell from the industrial level. Walk left to Reich's apartment. Enter it using the ID card on the door slot, then take the bike magazine from underneath the pillow.

Leave Reich's apartment and walk right to the square where you find Anchor Insurance and the travel agents. Enter the travel agents and talk to the guy at the counter. Give him the motor-bike magazine in return for a tour ticket.

Leave the travel agent's and wander back left until you see Lamb. Give the ticket (an invite to a tour of the pipe factory) to Lamb. Use the lift back to the Industrial Level and walk into the first factory where you should see Lamb. Go to Factory Three, the Reactor room, after you have been introduced to the foreman. Talk to Anita to get a jammer and find out about the Schriebmann port. Head back to the lift and to Belle Vue.



This futuristic shopping centre is where Foster trades in his bike magazine and learns about a 'special policy' from Billy Anchor.

From the lift, head left past Reich's apartment, until you get to the surgery at the end of the walkway. Go in and talk to the receptionist by clicking on the projector. Ask for a Schriebmann Port. Ask Joey to talk the receptionist to gain entry to the surgery. Walk left through the door and ask Dr Burke for a Schriebmann port. Keep talking to him to find out about Billy Anchor's special policy.



Would you buy a Schriebmann Port from this man? Foster begins to wish he hadn't gone private after all.

ANCHORS AWAY

Leave the surgery and head right to Anchor Insurance. Enter and talk to Billy about Dr Burke. When Billy leaves the room, ask Joey to get the anchor from the statue. Pick up the anchor and use it with the cable you collected earlier to create a grappling hook. Now head back the Industrial Level and the Recycling



There's only one way to get into the Security HQ and you're going to need a length of cable and an anchor to do it.

Plant where you started the game. Walk up the stairs to the gantry and go right through the fire door to the ledge. Use the grappling hook on the Security sign on the opposite wall. Once inside the Security HQ, use the ID card on the LINC interface and sit in the LINC console.

You're now inside the surreal world of the LINC computer's brain. Pick up the

THE SOLUTION

Reviewed *AF57* FG94% ■ Virgin 081-960 2255

ball in the first room. This appears as a Compressed Data icon in your inventory. Go right to the second room and from the inventory use Open on the carpet bag. Get the birthday present. This appears as a Decompress icon in your inventory.

Now use Decompress on the Compressed Data to reveal two documents, the report.doc and briefing.doc, which are also placed into your inventory. Collect the magnifying glass to get a Decrypt icon which you should then use on the two documents. This reveals two more icons – the red and green passwords. Go right again and enter the third room. You are now confronted by a grid of nine squares (nodes) which have to be activated in the right order.

Use the green password on node 1.

Use the red password on node 2. Pick up the green password and use it on node 4.

Pick up the red password and use it on node 5. Pick up the green password and use it on node 5. Walk to node 9 and then exit.

Get the books which appears as phoenix.doc in your inventory. Use Decrypt on phoenix.doc. Now collect the bust to get the phoenix program. Disconnect from LINC.

Go right to the LINC terminal by the door and use your ID card on it. When the on-screen menu comes up, select Security Services, then View Documents. Reach each document. Select Special Operations, then Special Status Request. Finally, select File Adjustment to D-LINC Lamb.

Now head off to Lamb's apartment, next door to your flat in Belle Vue, and get the Pussies on Parade video. Leave Lamb's apartment, go left, then take the lift down to Hyde Park.



Once you've D-LINC'd Lamb he sends you on an errand to feed his cat and collect a copy of his favourite video.

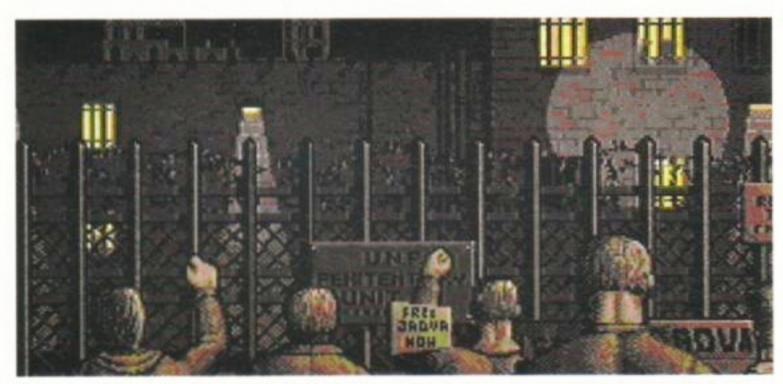
This maze room inside the LINC world isn't as complicated as it looks. Once you've decompressed and decrypted the objects from the previous room, the rest is easy. Use the green password on the square marked 1. Use the red password on the square marked 2. Collect the green password from square 1, then use it on the square marked 4. Collect the red password from square 2 and use it on the square marked 5. Collect the green password from square 4 and use it on the square marked 3. Now walk to the square marked 9 and walk through the exit on the right.





LIBERATION: CAPTIVE 2

Reviewed AF55 FG91% ■ Mindscape 0444 246333



"The peasants are revolting, you're Lordship." "Well stop looking out the window at them then." "Isn't that rather an old joke,sir?" "Who do you think you are? Oscar bleedin' Wilde?"

In Liberation: Captive 2, it is possible to duplicate any object any amount of times using the following method:

- Find a power point and stand in front of it.
- Select any item from a droid's backpack and drop it on to the floor so that the name of it appears in the text window.
- Pick up the same object and return it to the droid's backpack.
- Engage the poser point so the lightning bolts are touching you.
- Use the Look Right, Look Left command to move the view screen so that it is at an angle.
- Move the cursor to the bottom of the screen and hold down the right mouse button so that the cursor becomes a hand (the drop cursor) and left click.

- An object should appear on the floor and you can 'drop' as many items as you wish.
- R Look back to Normal View.
- When the power bolts stop, you can pick up the objects that you dropped.

When you duplicate an object you will find that all the ones you pick up are exact copies of the object written in the text window.

This is particularly useful with credit cards because you can stack lower value cards that you have duplicated until you reach maximum value. You then duplicate this in order to get as many credits as you wish.

Duncan Stuart, Aylesbury, Bucks

FLY HARDER CD32 Reviewed AF57 87% Krisalis 0709 372290 These codes are from the CD32 version of Fly Harder. Password PHO MET BLA SUP TRA QUA NEO Paul Japp, That inverted thrust will get you every time, so it's a good job we've got the level codes for the CD32 version. **Richmond, Surrey**

WIN A GREMLIN GAME

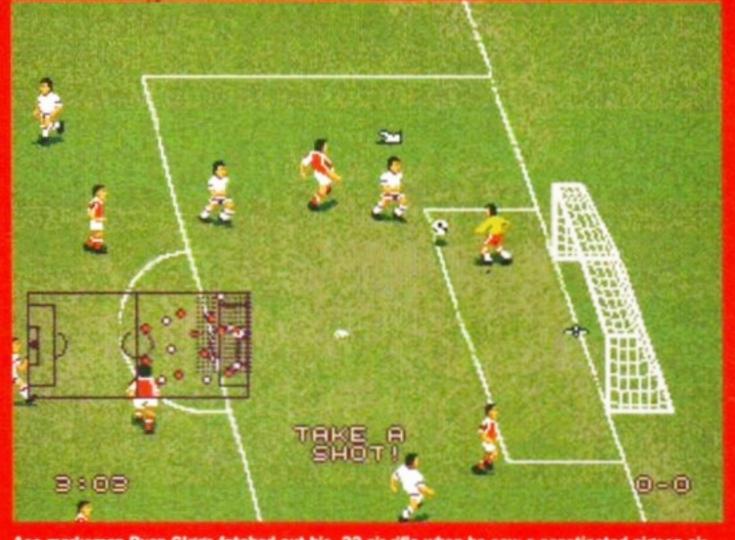
Have you got any hot hints, top tips or stunning solutions for the latest Amiga games? Then send them in to Gamebusters and you could win a game from the wonderful people at Gremlin Graphics, creators of Zool 2, K240, the Lotus racing sims and many more.



All you have to do is jot down your tip on a piece of paper (or send it on disk if it's a big solution) along with your address details and the name of the Gremlin game you want you win, then send it to: GAMEBUSTERS, Amiga Format, 30 Monmouth Street, Bath BA1 2BW. If you prefer, you can win an Amiga Format mail order voucher. This entitles you to spend up to £25 on items advertised in the mail order section of the magazine (see pages 152 and 153).

EUROPEAN CHAMPIONS

Reviewed AF52 73% Ocean 061-832 663



Ace marksman Ryan Glggs fetched out his .22 air rifle when he saw a constipated pigeon circle mischievously over Eric Cantona's head... oh and then he scored a goal as well.

I've found two hints to help with *European Champions*. If you're losing badly (say 5-0) and you know you cannot catch up with your opponents, press Escape to abandon the match. Then, when you select Start Match you will replay the match you were losing. You can repeat this as many times as you wish.

If the goalie of the opposing team catches the ball on his line it's possible to force him to drop the ball so giving you the goal. This only works occasionally.

M Soare, Hull, E Yorks

ACTION REPLAY CORNER

The following are action replay pokes for some top games.

CHAMPIONSHIP MANAGER 93-94

Reviewed AF48 82% Domark 081-780 2222

m 5AE9D = home side goals

m 5AE9F = away side goals

CANNON FODDER

Reviewed AF54 FG95% ■ Virgin 081-960 2255

m C01F4D = weapons

Note: the missiles and bombs are on the same line.

m C00639 = amount of troops

GOAL

Reviewed AF49 88% ■ Virgin 081-960 2255

m 104AF = home side goals

m 104B1 = away side goals

JIMMY WHITE'S WHIRLWIND SNOOKER

Reviewed AF26 FG91% ■ Virgin 081-960 2255

m 5AD7 = points left side

m 5AD9 = points right side

MORTAL KOMBAT

Reviewed AF55 74% Wirgin 081-960 2255

m C27F45 = rounds won left side

m C27F47 = rounds won right side

M C28038 = Timer

M C27F49 = wins in a row left side M C27F4B = wins in a row right side

RBI BASEBALL TWO

Reviewed AF45 82% ■ Ocean Hit Squad 061-832 6633

M 1E027 = Strikes

M 1E02D = Outs

STRIKER

Reviewed AF38 FG93% ■ Rage 051-933 2688

M 4027 = goals left side

M 4029 = goals right side

John Burrows, Stockton-on-Tees, Cleveland

HELPING HAND

When the going gets tough, Rob Mead gets sorting through all those tips and cheats to help you out of your sticky situations and complicated conundrums. Take it away, Rob...

DIZZY CHEATS

Do you have any cheats for Treasure Island Dizzy?

C E Dean, Saltash, Cornwall

At the beginning of Treasure Island Dizzy type ICANFLY, then jump off the end of the beach to take off.

WHALE ON



The kiwis' day out is ruined by a blubbery seal in platform classic *The New Zealand Story*.

I can't get past the whale on levels

1-4 in The New Zealand Story.

Can you provide me with a cheat to skip levels?

Michael McNulty, Liverpool

Type FLUFFYKIWIS on the title screen, then press HELP to skip from level to level.

IT TAKES TWO...

I'm stuck on Golden Axe. Do you know any cheats?

Paul Bain, Fareham, Hants

Plug a second joystick into your Amiga and start a two-player game on your own. When you die, press Fire on the second joystick for an extra three lives.

SKULLDUGGERY

In Lure Of The Temptress, can you tell me what is the skull combination to get through the caves?

G Mellor, Northumberland

Once you have managed to get past the Gargoyles with Goewin's help, she follows you into the caves. Pull the right skull, go into the green cave, then into the entrance cave.

SEND US YOUR STUFF

If you're having trouble with a particular game or have a solution to a letter printed in the magazine, don't keep it to yourself – write it down and send it to us, and we'll do our best to print it. Send it to:

HELPING HAND Amiga Format, 30 Monmouth Street, Bath, Avon BA1 2BW.



Revolution Software's first graphic adventure was long on atmosphere, short on longevity.

Talk to Goewin, tell her to go back to the green cave and follow her. Tell Goewin to go back to the entrance cave and pull the left skull.

When the door opens go into the blue cave, pull the right skull, then the left skull. Wait until Goewin walks in and tell her to go to the green cave and pull the right skull. Save the game.

Go to the left when the door opens, kill the guard, go left and use the potion on the dragon. Talk to the dragon and tell it to help you. Enter the blue cave, pull the left skull, go to the green cave and pull the left skull. Finally go back to the entrance and leave the caves.

KLINGONS ON THE STARBOARD BOW

Can you help me with Star Trek?
I have 21 commendations and have finished level six – the Old Devil Moon – but I just can't get past the Enterprise replica. Please, please help me.

Angela Underhill, Birmingham

If you set your speed to 2 or 3, the fake Enterprise circles around your ship making it easy to shoot at or blow up. You are now confronted by two Elasi ships which you have to destroy to win.

MONEY, THAT'S

Are there any cheats for Sim City?

Adam Jelly, Tyne and Wear

When you start the game hold down Shift and type FUND for \$10,000. You can do this as many times as you like.



Save your beloved city with a little help from an infinite money cheat in Sim City.

XENON-PHOBIA

I'm having some trouble with Xenon 2 – Megablast. Is there a cheat for loads of money and everlasting energy?

Gareth Lowe, Matlock

No, the only cheat we are aware of is this: pause the game, type RUSSIAN AIR, unpause, then use N

to skip levels. This cheat only works on some versions.

DENNIS THE MENACE



Dennis was a rubbish film and an even lousier game. Why on earth did Ocean bother?

On Dennis for the Amiga 1200
I cannot get into the attic on level
one to collect the last few coins. Can
you please help me?

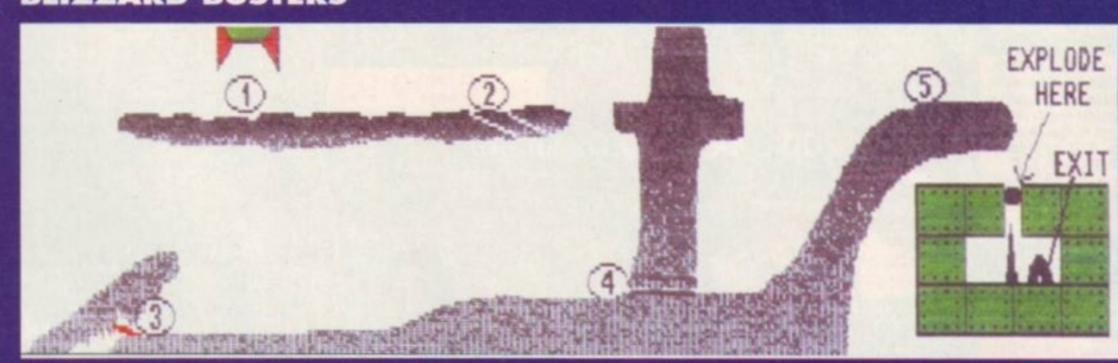
David Last, Farnham, Surrey

Go to the extreme right of the first floor and find Mr Wilson. Run away when he comes to get you, then follow him as he turns his back.

Use the jack-in-the-box to leap on to the shelf. Now jump left on to the first wardrobe and then left again on to the second with two suitcases on top of it.

Walk on to the bottom suitcase and, using the water pistol, shoot the switch on the wall to the left. Now run left to first chest of drawers and climb up the rope which is dangling down the wall to get into the attic.

BLIZZARD BUSTERS



Having trouble finishing level 16 of Holiday Lemmings? Then fret no more. We have the solution. Right here. Right now.

Here's the complete solution to level 16 – Blizzard of Holiday Lemmings, as requested by R Martin in AF58's Gamebusters. The correct level code is BKNNOOLQDR.

- 1 As soon as the game starts, select Blocker and click on the second lemming right under the trap door. All the other lemmings should now walk right.
- 2 Select Miner and click on the first lemming near the end of the platform so that he falls onto the bit of platform below.
- 3 If all the lemmings fall down safely you can continue. On the lower platform, wait for a lemming to walk left and make him build under the overhang so he blocks it. 4 Bash through on the right so the lemmings may pass.
 - 5 This is the tricky bit. You need to turn the first lemming to reach the top into a Bomber so he explodes the moment he lands on the metal floor below. If all goes well the lemmings go into the exit safely. You should have 96 per cent - just right to finish the level.

Robert Smith, Leicester

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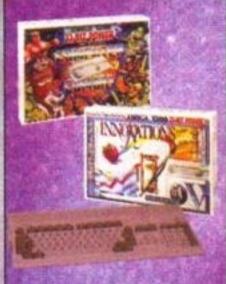
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| Standard Amiga A500-600-1500-2000 (unexpanded) | 0.55 |
| Standard Amiga A1200 (unexpanded) | 1.33 |
| Amiga A1200 & Blizzard 1204 4Mb RAM Card (AMF Gold Award) | 2.94 |
| Amiga A1200 & Biizzard 1220 4Mb & 28Mhz 68EC020 Accelerator | 5.05 |

Amiga A1200 & Blizzard 1230 4Mb & 40Mhz 68EC030 Accelerator 7.06 A NEW FASTER REPLACEMENT FOR THE AWARD WINNING 1204!!!

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All the above tests were performed using SysInfo Version 3.18

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SEE PAGE 3 FOR FULL **DETAILS OF** RANGE OF THE NEW YOUR AMIGA AND AT A

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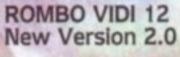
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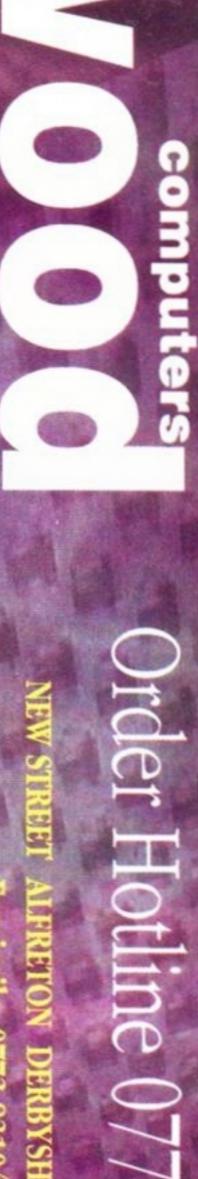


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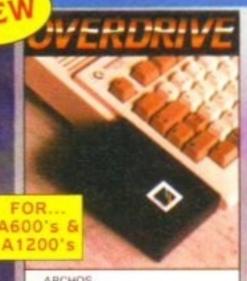
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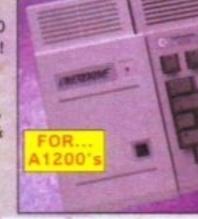
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4Mb RAM EXPANSION (Blizzards own) 33MHz. FPU MATHS CO-PROCESSOR

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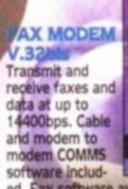
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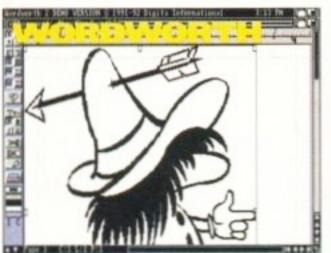


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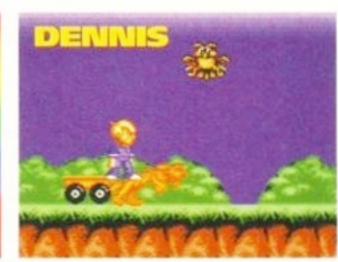
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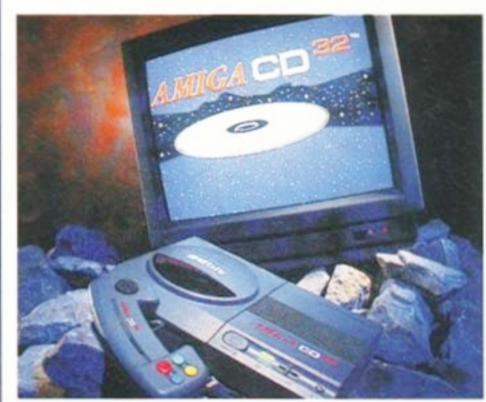
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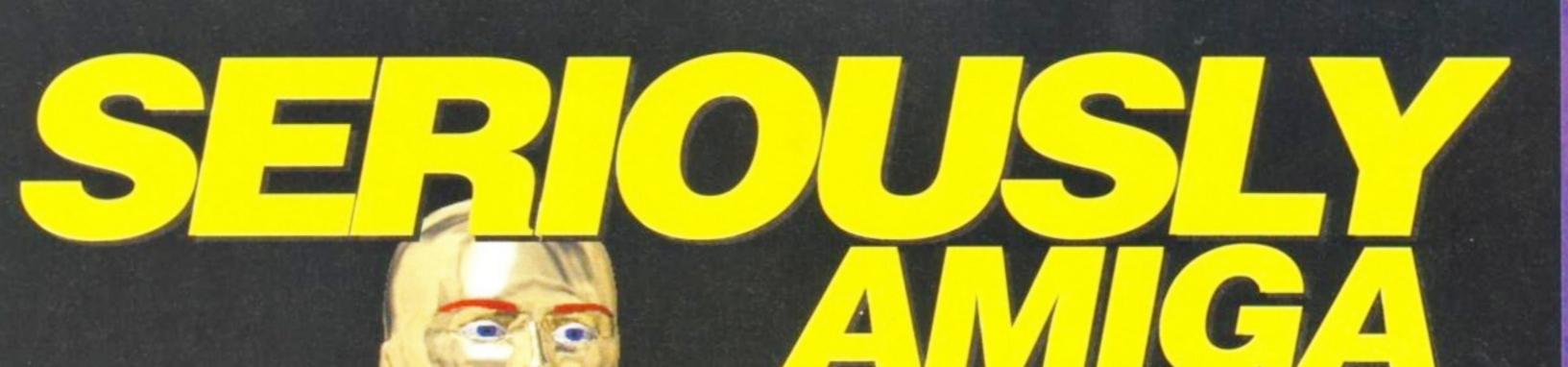
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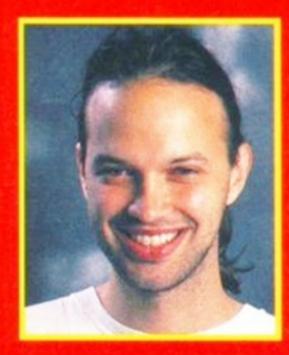
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AMIGA

WELCOME!



Well, what a month it has been. Scarcely a few weeks after Commodore show off their brand new Amiga, the A4000T, the parent company in the US goes into liquidation. What exactly this will mean to Amiga owners is not yet clear. What it most certainly does not mean is that

everyone's machines will stop working overnight.
The Amiga will continue, and just to prove it we have another bumper feast of reviews and features for you, wherever your particular interests may lie.

We'll start with a more detailed look at the new A4000T. You may never even see one, but it could play a significant role in Commodore's future. Or could it be just another dinosaur? Check the facts on page 108 and decide for yourself.

Also, as you may have noticed, I'm joined this month by a character with an even more shiny head than Jeff Walker (whose column has now moved to the News pages). This chap is part of the *Humanoid 3D* model library, reviewed on page 116.

If that isn't enough, John Kennedy looks at a way to generate C code from pictures with an amazing new utility.

Anyway, don't hang around here – there's lots of good stuff waiting for you over the page...

This image was rendered in Lightwave on an Amiga 3000 by the inimitable Richard Baguley. He didn't spend years creating the model, though, it's part of the Humanoid object set reviewed on page 116.

REVIEWS

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Make no mistake, the new kid on Commodore's block is bigger, but is it any better?
Nick Veitch takes a tour of a new towering Amiga.

The A4000T has a stylish case, but it's what's inside that counts. Still, it won't do it any harm to look the part of a top-flight workstation.

AMIGA © 4000T

The back of the case reveals some of the changes, including more expansion slots and a built-in SCSI interface.



hen the Amiga 4000 was launched it was to a fanfare and rapturous applause from almost the entire Amiga community. There were many innovations: the new version of Workbench with the DataType file support, enhanced monitor and printer facilities; the AGA chip set along with its amazing 256 colour palette, new super-high resolution screenmode, and HAM8; as well as the inclusion of a high density floppy drive as standard - it certainly was a wonderful piece of machinery.

However, the novelty of some of these features wears off with time. Workbench 3 has been around for a while, 256 colours isn't really that many and nobody seems to exploit the HD drive, since it wasn't included in the A1200. As people began to take a more critical look at the A4000, they started to point out its deficiencies.

For a start, the hard drive interface is for an IDE mechanism. IDE may be a cheap solution for the A1200 where the main problem is storage space. But for professional users, this type of interface is just too slow. When you are trying to sample 16-bit audio to disk, or replay 24-bit animations from disk, you need a bit more than a transfer rate of just over 1Mb per second.

Secondly, there were the deficiencies of the Buster chip, which was designed to control the Bus interface of the A4000. Unfortunately, it didn't work too well, and crippled the speed of many interfaces designed to work to the Zorro III standard.

Possibly the major problem was the lack of expansion space. In the days of the A2000, the Amiga had seven slots at the rear for expansion. The A4000 has only four. The slots are all full-length, so they can be used as PC or Amiga slots, and the video slot is in-line on the bottom slot, but even this can cause problems. It is not the flexibility of the slots that is in question, but the number. Any decent 4000 set-up needs a SCSI hard drive and a 24-bit graphics card. That's half of the 4000T expansion capabilities used up already. If you want to add more RAM and a 16-bit sound card you're full up. Where are you going to put your Personal Animation Recorder system/TBC card now?

The problem is more severe for Toaster users. The Video Toaster takes up two slots. To do anything useful with it you need a Time Base Corrector card for each input, and if you want the speed of a SCSI drive, you've already run out of space.

SPECIFICATIONS

Sound:

Kickstart ROM:

Full 68040 @ 25MHz Processor:

2 video slots, 4 PC slots, 5 Zorro III slots Expansion: Parallel, Serial, two mouse/joystick ports Interfaces:

SCSI interface

IDE interface

4 front mounting bays with blanking panels Mounting Bays:

Phono stereo outputs

Built-in speaker (.25W)

4 SIMM slots, giving a total of 32Mb RAM: Version 40.7

A TRIP AROUND THE TOWER

An uprated 250 Watt power supply should be enough for the computer and any peripherals and cards that you want to add.

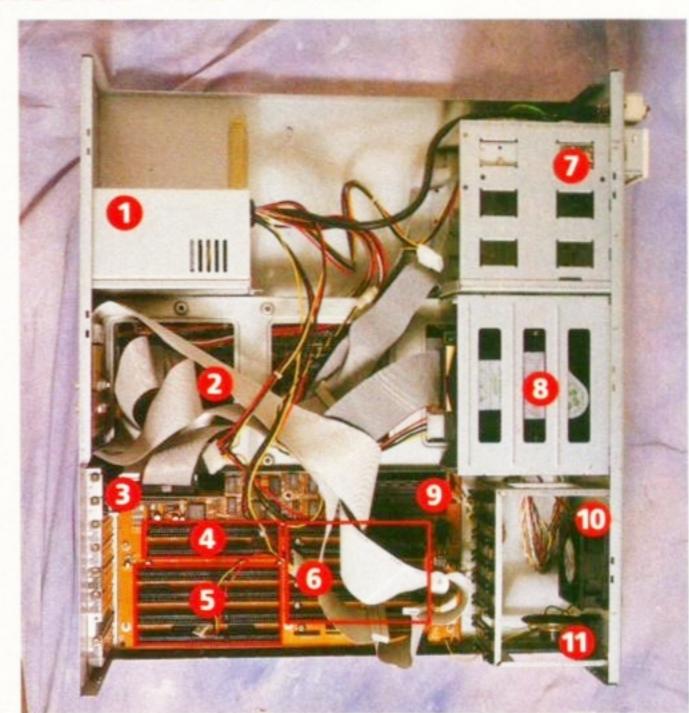
The CPU card, apart from a different heatsink on the 68040, is the same as the A4000's.

A built-in SCSI interface, complete with subminiature 50-way D-Type socket for external SCSI devices.

Two video slots for twice the graphics fun.

Four PC-style expansion slots.

Five Zorro III expansion slots.



Three horizontal 5.25-inch mounting bays, the first of which contains a high density drive.

Two vertical 5.25-inch mounting bays. The default IDE mechanism is stored in one.

O Four SIMM slots, each can accept 1, 2, 4 or 8Mb SIMM modules, giving a total of 32Mb RAM capacity on the motherboard.

To prevent a towering inferno, this powerful fan circulates air inside the case. 4 4 The .25W

internal speaker is unspectacular, and is drowned out by the fan's noise.

So what are Commodore going to do about these problems? The answer lies in the shape of the A4000T. The newest Amiga is a vertical system. A 'tower' is the name usually given to computers when the case gets so big that it can't sit flat on a desk and has to be turned on its side.

Standing an impressive 20-odd inches high and with a tasteful smoked glass cover, the 4000T looks the part of the modern professional workstation. But what's inside the case? Essentially, the electronics are little different to the A4000, except they are now re-organised on a single board with the Zorro buses. The new machine only comes in one version - with a 25MHz 040 (with MMU) installed, the same as the original A4000/040. In fact, the motherboard is all but identical. All 4000Ts have the revision 11 Buster, though, solving most Zorro III problems.

Under the HD drive there are four 5.25-inch bays, two horizontal and two vertical, for installing further devices such as standard internal CD drives, an additional floppy mechanism, or even a tapestreamer. The front panel has a professional feel to it, but it isn't entirely useful. Most work on high-end machines is performed directly to and from the hard drive, so there isn't a lot floppy disk swopping to be done. If there was, the panel would be annoying.

The A4000T includes an integral SCSI mechanism. Internal drives can be mounted behind the 5.25-inch panels if you're not using them. There is a through connector for the SCSI interface located on the rear of the tower for adding external SCSI mechanisms such as optical drives and tapestreamers. The rear connector is a subminiature 50-way D-type - smaller than the connector found on most SCSI cards. There is still an IDE interface connected, which is useful for cheap mass storage.

A bizarre change is the keyboard con-

A2000-style large DIN socket. This isn't too disturbing, but it is odd because a new A4000 keyboard will have to be manufactured (or at least it will need a different lead). On the mundane side of things, the power supply has been uprated to 250W (over the A4000's 145W) and a small internal speaker has been added (not much use for anything other than system alerts).

A more invisible change are the new versions of Kickstart and Workbench. The 40.7 Kickstart is an advance on the 39.106 Kickstart included in current AGA machines. It adds direct support for a CD filing system. Currently Amiga owners adding a CD drive to their set-up need a filesystem in order to access standard ISO 9660 discs. Because the filing system is now in ROM, it also means the A4000T can boot up directly from suitable CDs.

Now there are only four sockets for SIMM modules, as opposed to five. But the sockets will now accept 1,2,4 or 8Mb SIMMs, enabling you can to get 32Mb on board without a RAM expansion.

The big opportunity to add many more slots has been missed. In total, the 4000T now has five Zorro III slots (one more than before), four PC slots (one more) and two video slots (one more). These slots are in-line, apart from a solitary PC slot, so if you use both video slots, you'll only have three Amiga slots.

Throughout the history of the Amiga, Commodore have failed to promote the high-end capabilities of the machine. This is not because the Amiga is not able to compete with Apple Macintosh or IBM PC hardware, but because CBM haven't got the money, the spirit or the expertise to market their product against the computer giants. So it's good to see a new machine aimed squarely at the professional market. Unfortunately, this is probably the only place you'll hear about it...

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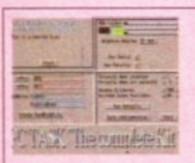
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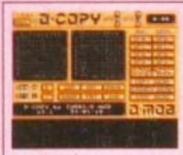
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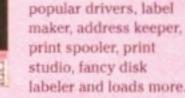
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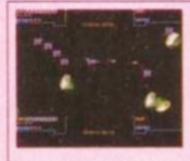


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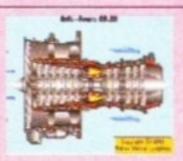
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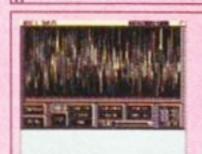
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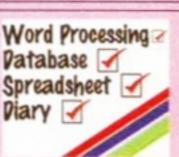
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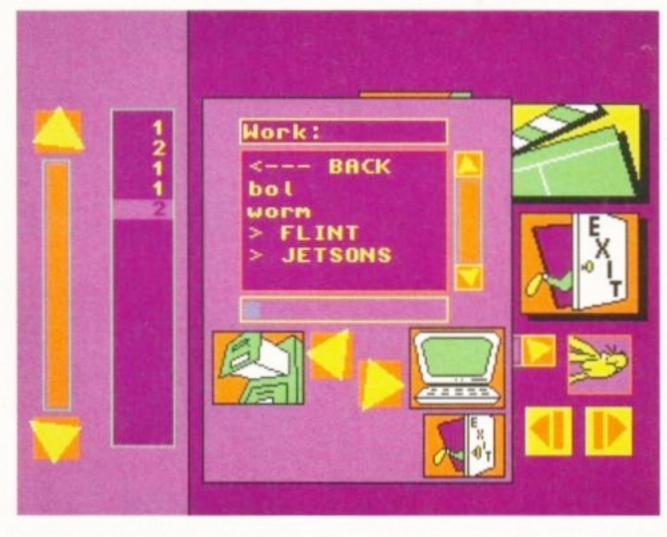
Hanna-Barbera is a name synonymous with the world of animation, but Richard Baguley is not. Can this program from Empire turn him into an artistic genius?

eal life is good, but cartoons are even better. Where else can you do things like drop large rocks on people's heads without being arrested for grievous bodily harm? The Amiga has always been a prominent machine in animation circles, with people like Rusty Mills (director of Brothers' cartoon series Warner Animaniacs) using them for a variety of purposes in cartoon production.

Of course, Warner Brothers can afford things that are beyond the reach of most Amiga users, but there have been several packages, such as Disney Studio, reviewed way back in AF20, which applied convenanimation techniques tional computer-based animation.

Hanna-Barbera Animation Workshop (henceforth referred to as HBAW) takes this approach to creating animations. It's based around playing a number of animation frames (also known as cels) over a static background in a certain sequence, to create the animation. Each of these frames has to be drawn and coloured individually.

The first thing that strikes you about HBAW is the garish colour scheme, based around a curious combination of purple,



The file requester for HBAW is, erm, some-

what non-standard in

design and use.

green and orange. Combine this with big bold icons and you get a very easy-to-use interface. Most of the icons are obvious, but some could do with more clarification.

For instance, the warning before you overwrite an animation is a question mark with a tick and a cross in it. Clicking on the tick overwrites, but you aren't given an explicit warning, and the same question mark is used in other circumstances.

HBAW also enables you to digitise directly from a video camera or recorder via a Vidi digitiser, but I was unable to get it working with Vidi 24RT. This can be used to digitise both backgrounds and drawings, so you could make your initial drawings in pencil, digitise them and then combine them into the final animation.

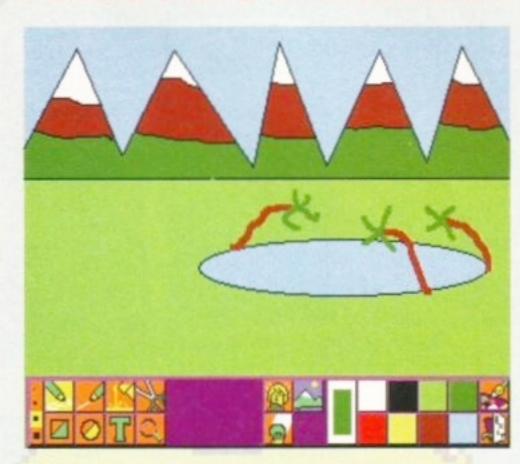
Creating the animation frames is easy, if time consuming. A basic cut and paste tool is included, which is useful if parts of your animation don't change from frame to frame. There are only six drawing tools (freehand, straight lines, fill, circle, square and text which is limited to one font) so HBAW lacks the more powerful tools found in programs such as DPaint.

The initial drawings of your characters are created in two colours, which you then colour in. You have a maximum of eight colours for the backdrop and eight for the characters, giving a maximum of 16 colours for an animation. These are also limited to low resolution.

Unfortunately, there is one area in which HBAW fails in a major way. It can't load or save IFF files, so you can only use the small range of tools included or load the ones supplied with the program. I really can't see why the programmers have chosen to produce it this way.

The IFF file format has long been one of the Amiga's great strengths because you can use them in different programs for different purposes. For instance, you can use

ANIMATING THE HANNA-BARBERA WAY



The first thing to do when creating an animation is to draw your background. Here's one that I prepared earlier.



Now, let's create the animated character. I'm actually cheating by using some of the clip art included with the program, but drawing your own is easy. The lighter versions of Fred you can see are the previous animation frames.



Now let's add a bit of colour, which can be easily done with the fill tool. This has to be done on each and every frame.

BERA MARKSFIOR

DPaint to draw a backdrop and then use this as a brushmap in Imagine. HBAW throws this out of the window, because the files created in it cannot be read by other programs, and it can't load in images from other programs.

This might have been acceptable if there was a standalone player for your animations, but there isn't. This means that the only way you can play back animations is by loading them into the main program, so you can't distribute your creations for other people to view and marvel at.

The animation is controlled by an exposure list, and this can show the animation frames in any order. With a bit of forward planning, you can re-use animation frames several times during a single animation, thus cutting down on the amount of memory required.

HBAW is good at creating cartoon-type animations, but what can you do with them once you've created them? Unfortunately, the answer is very little. But it's easy to use, although the interface is a little clumsy, especially when saving or loading a file. Younger animators will certainly feel at home, and the included clip art is good for showing how the program works and how you create animations.

The fact that you can't use it with other programs means that it will probably quickly be abandoned in favour of more powerful and flexible programs such as DPaint or Personal Paint.

WHAT'S ON THE HANNA-BARBERA MAIN MENU

2 3

1 — 4

1 — 5

EXPOSURE SHEET: This controls which frames of the animation are played back and at which point in the animation.

I make the same of the animation are played back and at which point in the animation.

BACKGROUND PAINT: This is

used for creating background

images for use in your animation.

You are limited to eight colours.



And here is the final result of my adventure in the world of animation. Move over Fred Quimby, here I come!

HB ANIMATION WORKSHOP

DISTRIBUTOR

Empire Software 081-343 7337

PRICE

ANIMATE MODE: From here

you can create your animations

£44.99

SYSTEM REQUIREMENTS

Works on all 1Mb Amigas

MANUAL

••••

Easy to get started. Explains the basics of creating simple animations in very easy to understand language.

ACCESSIBILITY

000

The icons are distinctly ugly, and their functions are not always immediately obvious to the user.

FEATURES

00

A very basic animation package which doesn't support IFFs and has none of

the advanced tools offered by DPaint or Personal Paint.

ANIMATION CONTROL: Sets the

speed and direction of the

animation playback.

VALUE

00

£45 seems a little expensive when you consider that there are Public Domain and Shareware programs that are nearly as good.

"A good program for creating character-based animations, but the lack of support for saving them out as IFFs is unforgivable."

50%

SHOPER.

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In his never-ending quest for the perfect virtual reality, Richard Baguley looks at Humanoid, a 3D model of a human.

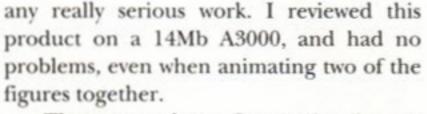
uman beings are a problem. Apart from all of the war, starvation and other sources of grief and unpleasantness in the world, they are extremely difficult to model accurately in a 3D program such as Imagine or Lightwave.

The problem is the lumps. Objects such as spaceships and buildings are easy to model, because they are composed of groups of simple flat planes which can be easily reproduced.

People, however, are composed of lots of curved surfaces and lumpy bits which are very difficult to reproduce in a 3D computer environment. Although most 3D programs have an array of tools for modelling objects, making objects that look like real organic things (such as people) is difficult. Fortunately, somebody has already done all the hard work for you in the form of Humanoid. This is a set of human figures in either Imagine and Lightwave format (you have to buy the two formats separately), which have been constructed completely from scratch and are specially designed to be easy to animate.

These are extremely complex mod- The object heads can els, and you are going to need a pretty powerful machine to work with them efficiently. The minimum recommended configuration is 8Mb of memory, but you are going to need even more than this for

display a wide range of emotions, from joy to anger, although the Imagine versions don't have any facial features.



There are three figures in the set (man, strong man and woman), and an additional one (child) is sent out when you register the product.

Each version of the models are structured to make animating the characters easier. The models are composed of a series of objects grouped together in a hierarchical fashion, so as the old song goes, 'the arm bone is connected to the shoulder bone'.

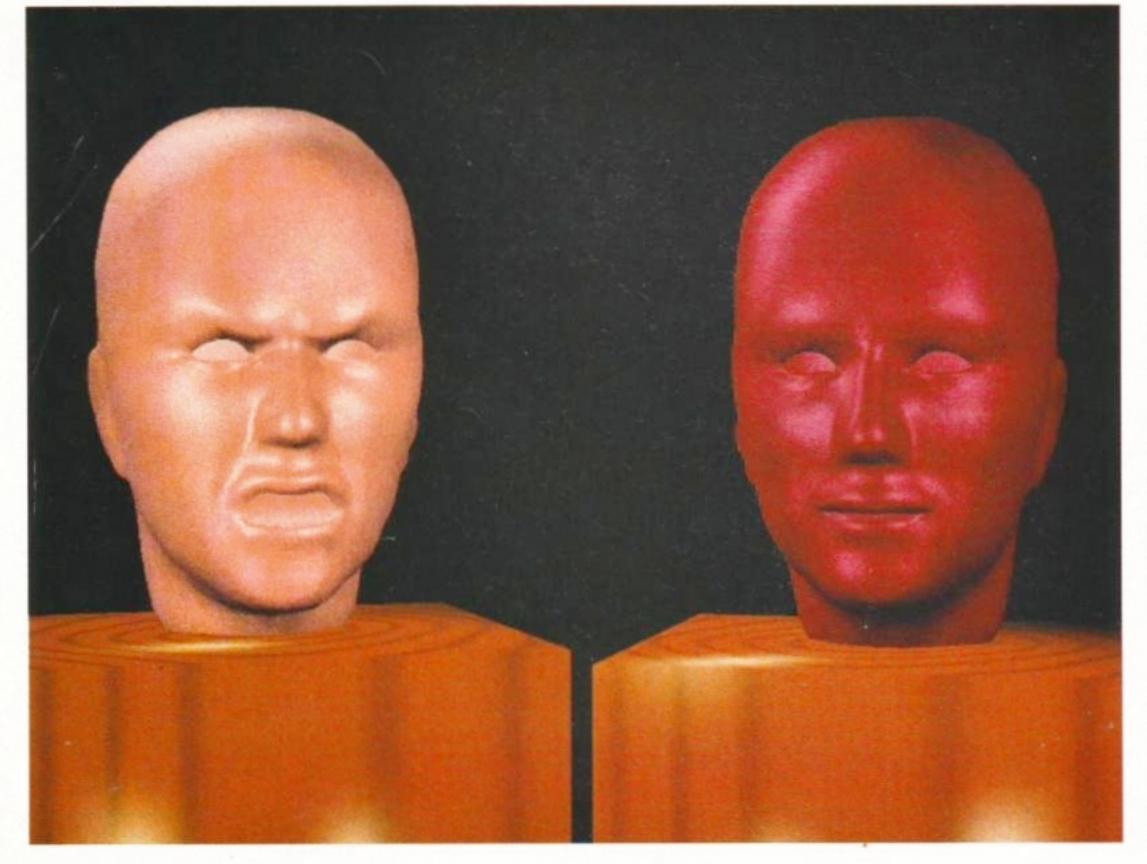
For example, if you want your rendered image to lift up its arm, you select and rotate the shoulder object, and the entire arm will be rotated with it. If you want to move the hand, you select just the hand and rotate that.

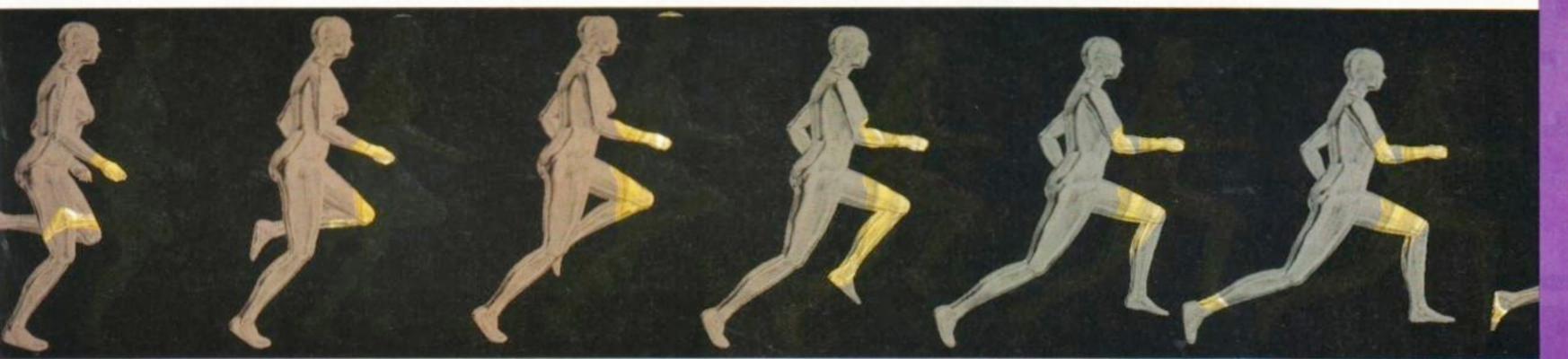
Some movements will not look correct when created in this way, so a selection of the body parts in various positions are included. This method of construction means that it's extremely easy to make the arms move, because all you have to do is to select the appropriate group and rotate it in the right direction on its local axis.

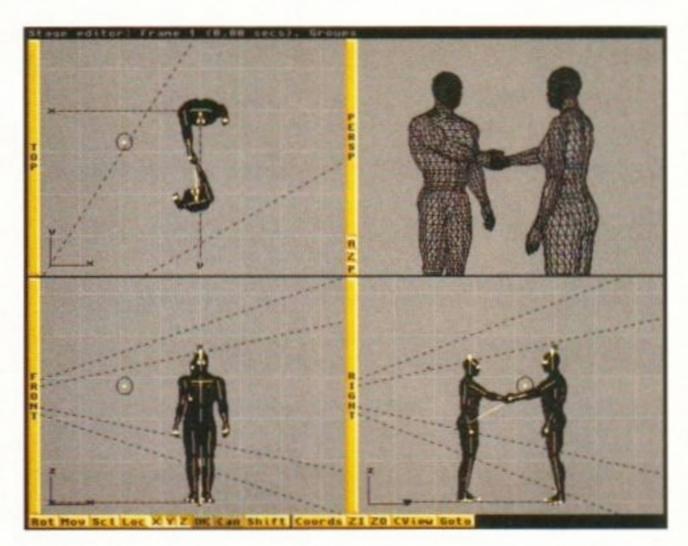
The Lightwave version of the models even have facial features such as eyebrows and pupils, although these are not present on the Imagine version.

There are a total of nine versions of the head giving you a choice of expressions such as surprise, joy, sadness and fear, and 11 versions of the hand are also included, giving positions such as pointing, gripping and shaking. There are also phonetic positions so you can make the mouths appear to be making different sorts of sounds.

Humanoid is a highly impressive bit of modelling, but it's certainly not perfect. Although you have a great amount of control over the movement of the human body, this doesn't stretch to controlling the smaller parts of the objects such as the fingers or toes, because these are not generated separately.





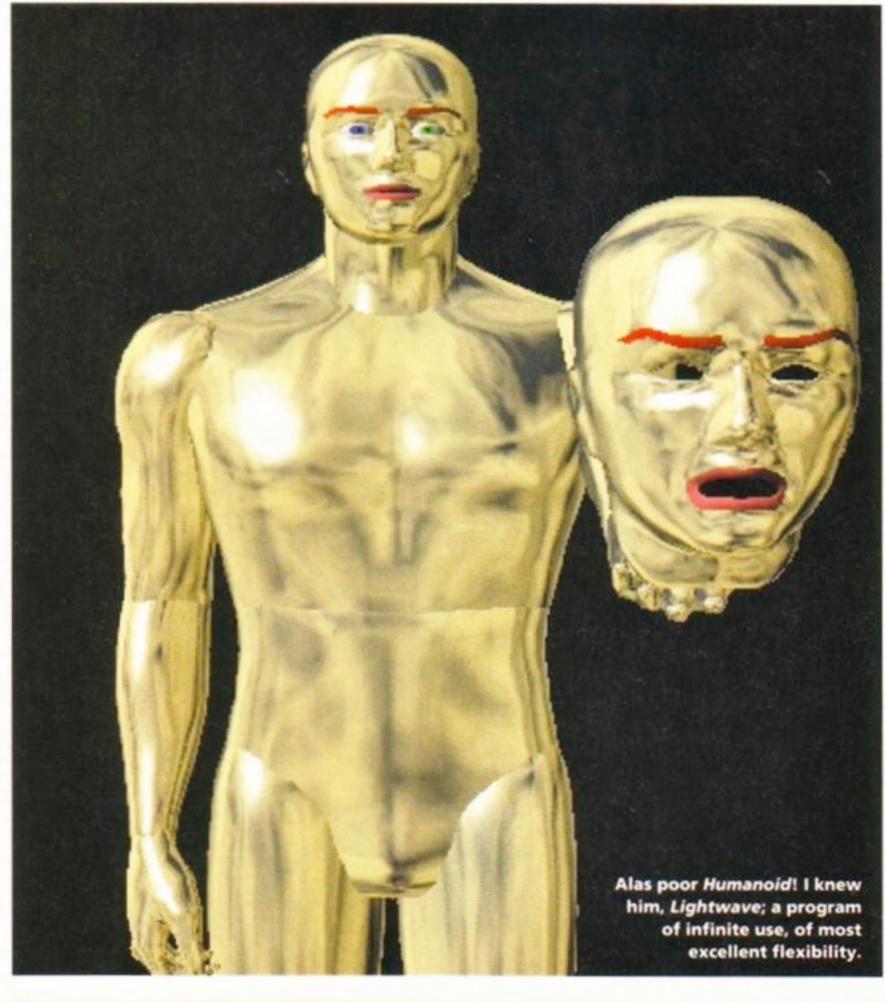


If you want to make any of these parts of the body move independently of the rest of the object, you have to manipulate the points which make up the relevant part of the body to create the movement you want to make and then morph between the two objects.

Although this is certainly possible, it's not exactly the easiest or the most efficient way of going about things.

However, it's more than likely that you would want to play about with the way the basic objects look and move, and these Humanoid models provide an excellent basis for building your very own set of virtual people.

Working with two of the objects requires a powerful machine and a degree of patience while you wait for it to redraw.



MAKE THE MOST OF YOUR HUMAN MODEL

It's unlikely that any animator would want to use the Humanoid objects purely in the form in which they are provided. Although I've used the basic models in this review, most animators would probably prefer to use them as a basis for creating their own distinctive models. This means adding extra features such as hair, clothes, warts and all, or adapting the existing features.

The Humanoid models were used by animator Ron Thornton in his science fiction adventure Babylon 5, currently being shown on Channel 4.

Most shots of spacecraft where you can see people are produced by combining the live action shot and the special effect. The producers of Babylon 5 wanted to avoid this, so Foundation Imaging (the clever chaps who produced all of the graphics for the program) used Humanoid to create a 3D model of the pilot which they then put into the cockpit. This model could be fully animated, so the pilot could manipulate controls and make expressions, even though he was just a 3D model created in Lightwave.

HUMANOID

000

DISTRIBUTOR

Crestline Software, PO Box 4691 Crestline, CA 92325, USA 0101 909 338 1786

PRICE

\$195.00 (around £130)

SYSTEM REQUIREMENTS

At least 8Mb of memory 18Mb hard disk space Imagine 2 or above or Lightwave 2 or above

MANUAL

The intricacies of animating the figures are explained well, although the language is a little curious at times.

FEATURES

0000 Each object is supplied with several

different versions for various emotions and positions.

VALUE

£130 for a 3D model may seem a lot, but it's extremely good value considering how complex the models are.

0000

"The objects are excellently modelled and incredibly flexible. Extremely useful for serious animators who need to build people models."

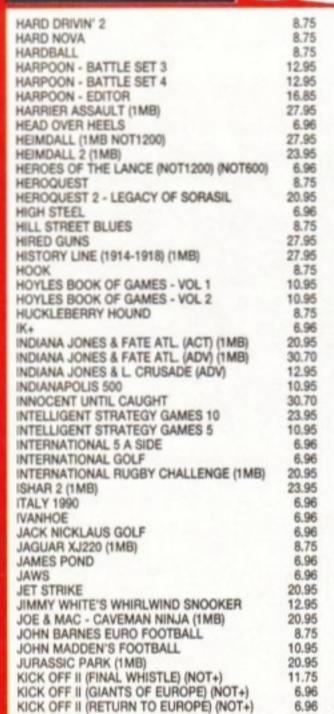
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| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 12.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS/PINBALL FANTASIES | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20. |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES PINBALL FANTASIES (1MB) | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 24.95 20.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES PINBALL FANTASIES PINBALL MAGIC PIRATES | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 20.95 12.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS/PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 20.95 20.95 12.95 6.96 20.95 12.95 6.96 20.95 12.95 6.96 20.95 12.95 6.96 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS/PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 48.95 20.95 20.95 27.95 20.95 27.95 20.95 27.95 20.95 27.95 20.95 27.95 20.95 27.95 20.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS/PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 6.96 20.95 21.95 21.95 6.96 20.95 21.95 21.95 6.96 20.95 21.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 20.95 27.95 23.95 23.95 12.95 6.96 8.75 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 8.75 12.95 6.96 8.75 8.75 12.95 6.96 8.75 8.75 12.95 6.96 8.75 8.75 12.95 6.96 8.75 8.75 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.95 11 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 3 | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POUCE QUEST 1 POUCE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS/PROMISED LANDS | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 23.95 12.95 6.96 8.75 12.95 6.96 20.95 12.95 12.95 12.95 12.95 6.96 8.75 12.95 |
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| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POUCE QUEST 1 POUCE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 11.75 6.96 8.75 12.95 12.95 11.75 6.96 8.75 12.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES PINBALL FANTASIES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT POSTMAN PAT POSTMAN PAT POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POUCE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIERE MANAGER 2 | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 12. |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POUCE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIERE MANAGER 2 | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 12. |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES PINBALL FANTASIES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 12. |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS/PINBALL FANTASIES PINBALL DREAMS/PINBALL FANTASIES PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POUCE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER MANAGER 2 PREMIERE PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) | 10.95 8.75 23.95 19.95 19.95 19.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 11.75 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS/PINBALL FANTASIES PINBALL DREAMS/PINBALL FANTASIES PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 6.96 8.75 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 12.95 6.96 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 3 POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIER MANAGER 2 PREMIERE PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUST-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST OF AGRAVAIN | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 6.96 8.75 8.75 8.75 6.96 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.75 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST OF AGRAVAIN QWAK (1MB) R-TYPE I | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 12.95 12.95 12.95 12.95 8.75 11.75 6.96 8.75 12.95 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.7 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUEST FOR GLORY 2 (1MB) QUEST FOR GLORY 2 (1MB) QUEST FOR AGRAVAIN QWAK (1MB) R-TYPE I R.B.I. BASEBALL 2 (NOT+) | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 12.95 12.95 12.95 12.95 8.75 11.75 6.96 8.75 12.95 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.7 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST OF AGRAVAIN QWAK (1MB) R-TYPE I | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 12.95 12.95 12.95 12.95 8.75 11.75 6.96 8.75 12.95 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.7 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S BIG ADVENTURE NODDY'S BIG ADVENTURE NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL FANTASIES PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 2 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUAK (1MB) R-TYPE I R.B.I. BASEBALL 2 (NOT+) RAILROAD TYCOON (1MB) RAILROAD SRAVE | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER BANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST FOR GLORY 2 (1MB) QUEST FOR GLORY 2 (1MB) PUGGST PLAYLOND PREMIER DIVISION PREMIER DIVISION PREMIER DIVISION PREMIERE PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST FOR GLORY 2 (1MB) PUGST POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) PUGST PUSH-OVER PUTTY (SILLY) PUSH-OVER PU | 10.95 8.75 23.95 19.95 6.96 27.95 23.95 16.85 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDYS PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS/PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PROMECO PROMEC | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL FANTASIES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST OF AGRAVAIN QWAK (1MB) R-TYPE I R.B.I. BASEBALL 2 (NOT+) RAILROAD TYCOON (1MB) RAINBOW ISLANDS RAVE REACH FOR THE SKIES RED HEAT | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL FANTASIES (1MB) PINBALL FANTASIES (1MB) PINBALL FANTASIES (1MB) POLICE QUEST 1 POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS IPROMISED LANDS POSTMAN PAT POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF PERSIA PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST OF AGRAVAIN QWAK (1MB) R-TYPE I R.B.I. BASEBALL 2 (NOT+) RAILROAD TYCOON (1MB) RAINBOW ISLANDS RAVE REACH FOR THE SKIES RED HEAT RENEGADE RISKY WOODS ROAD RASH | 10.95 8.75 23.95 19.95 19.95 16.96 27.95 23.95 6.96 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIERE DIVISION PREMIERE MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST FOR GLORY 2 (1MB) QUEST OF AGRAVAIN OWAK (1MB) R-TYPE I R.B.I. BASEBALL 2 (NOT+) RAILROAD TYCOON (1MB) RAINBOW ISLANDS RAVE REACH FOR THE SKIES RED HEAT RENEGADE RICK DANGEROUS II RISKY WOODS | 10.95 8.75 23.95 19.95 19.95 6.96 27.95 23.95 6.96 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL DREAMS PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 1 POLICE QUEST 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT | 10.95 8.75 23.95 19.95 19.95 19.95 12.95 6.96 20.95 24.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 6.96 6.96 6.96 6.96 6.96 6.96 6 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTRUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS PINBALL FANTASIES (1MB) PINBALL FANTASIES (1MB) PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUSH-OVER PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST OF AGRAVAIN OWAK (1MB) R-TYPE I R-B.I. BASEBALL 2 (NOT+) RAILROAD TYCOON (1MB) RAINBOW ISLANDS RAVE REACH FOR THE SKIES RED HEAT RENEGADE RISKY WOODS ROAD RASH ROADBLASTERS ROBIN HOOD ROBIN HOOD - LEGEND QUEST ROBINSON'S REQUIEM | 10.95 8.75 23.95 19.95 19.95 19.95 12.95 6.96 8.75 8.75 48.95 20.95 12.95 6.96 8.75 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 11.75 6.96 8.75 12.95 12.95 11.75 6.96 8.75 12.95 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 10.95 10 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTHUN PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS/PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POLICE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS/PROMISED LANDS POSTMAN PAT 3 POWERMONGER PLUS DATA DISK PREMIER DIVISION PREMIER DIVISION PREMIER MANAGER 2 PREMIERE PRINCE OF PERSIA PRINCE OF PERSIA PRINCE OF THE YOLKFOLK PRO TENNIS TOUR 1 (NOT+) PROJECT X (1MB) PUGGSY PUTTY (SILLY) QUATTRO POWER MACHINES (COMP) QUEST FOR GLORY 2 (1MB) QUEST FOR GLORY 2 (1MB) QUEST FOR GLORY 2 (1MB) R-TYPE I R.B.I. BASEBALL 2 (NOT+) RAILROAD TYCOON (1MB) ROOBOCOD (NOT1200) ROBOCOD (NOT1200) ROBOCOD (NOT1200) ROBOCOD (NOT1200) ROBOCOD (NOT1200) | 10.95 8.75 23.95 19.95 19.95 19.95 23.95 16.86 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 20.95 27.95 23.95 11.75 6.96 8.75 11.75 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 10.95 |
| NIGHT SHIFT NINJA REMIX NIPPON SAFES INC NODDY'S BIG ADVENTURE NODDY'S PLAYTIME (1MB) NORTH & SOUTH OMAR SHARIF'S BRIDGE (1MB) ON THE BALL ONE STEP BEYOND OPERATION STEALTH OPERATION STEALTH OPERATION THUNDERBOLT OSCAR (1MB) OUTLANDER OUTLANDER OUTLANDER OUTLANDER OUTLANDER OUTLANDER PANG (NOT600) PANZA KICK BOXING PARASOL STARS PEN PAL PERIHELION PGA TOUR GOLF - COURSES DISK PICTIONARY PINBALL DREAMS/PINBALL FANTASIES PINBALL DREAMS/PINBALL FANTASIES PINBALL FANTASIES (1MB) PINBALL MAGIC PIRATES PIT FIGHTER PIXIE & DIXIE PLAYDAYS POLICE QUEST 1 POUCE QUEST 1 POUCE QUEST 2 POPEYE 2 POPEYE 2 POPEYE 2 POPEYE 3 POPULOUS II PLUS (1 MEG) POPULOUS/PROMISED LANDS POSTMAN PAT P | 10.95 8.75 23.95 19.95 19.95 19.95 23.95 16.86 20.95 24.95 6.96 8.75 48.95 20.95 12.95 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 11.75 6.96 8.75 12.95 14.45 12.95 6.96 8.75 12.95 6.96 8.75 14.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 12.95 6.96 8.75 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.96 |

| OOKIES (1MB) | 20.95 |
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| ULES OF ENGAGEMENT 2 (1MB) VF HONDA | 27,95 8,75 |
| U.B. | 23.95 |
| ANTA'S XMAS CAPER | 8.75 |
| AVAGE | 8.75 |
| CRABBLE ECOND SAMURAI (1MB) | 22.60 23.95 |
| ECRET OF MONKEY ISLAND (1MB) | 14.45 |
| ECRET OF MONKEY ISLAND II (1MB) | 30.70 |
| EEK AND DESTROY | 16.85 |
| ENSIBLE SOCCER 92/93 ETTLERS (1MB) | 20.95 27.95 |
| EYMOUR GOES TO HOLLYWOOD | 6.96 |
| HADOW DANCER | 9.76 |
| HADOW OF THE BEAST HADOWLANDS HADOWORLDS (1MB) | 8.75 |
| HADOWLANDS HADOWORLDS (1MB) | 8.75 20.95 |
| ILENT SERVICE II | 14.45 |
| IM ANT | 12.95 |
| IM CITY CLASSIC | 14.45 |
| IM CITY DELUXE IM CITY/LEMMINGS | 23.95 |
| IM CITY/POPULOUS | 23.95 23.95 |
| IM EARTH (1MB) | 15.15 |
| IM LIFE (1.5MB) IMON THE SORCERER (1MB) | 27.95 |
| IMON THE SORCERER (1MB) | 27.95 |
| IMPSONS IMPSONS : BART VS THE WORLD | 8.75 |
| KIDMARKS (1MB) | 20.95 20.95 |
| KIDZ | 6.96 |
| LEEPWALKER (1MB) | 24.95 |
| LICKS | 6.96 |
| LIGHTLY MAGIC NAPPERAZZI | 6.96 16.85 |
| OCCER KID | 23.95 |
| OCCER PINBALL | 6.96 |
| OCCER STARS (COMP) | 20.95 |
| OOTY & SWEEP OOTYS FUN WITH NUMBERS | 6.96 |
| OUP TREK | 16.85 23.95 |
| PACE CRUSADE | 8.75 |
| PACE HULK | 27.95 |
| PACE LEGENDS (1MB) | 23.95 |
| PACE QUEST 2 PECIAL FORCES (1MB) | 10.95 |
| PEEDBALL 2 | 16.85 8.75 |
| DELL BOUND DITTO | 0.00 |
| PIKE IN TRANSYLVANIA | 6.96 |
| PORT TOP 10 | |
| PORTS MASTERS (COMP) TAR LORD (1MB) | 23.95 27.95 |
| TARDUST (1MB) | 14.45 |
| TARGLIDER II | 8.75 |
| TEG THE SLUG | 6.96 |
| TREET FIGHTER (NOT+) TREET FIGHTER 2 (1MB) | 8.75 |
| TRIDER | 12.95 6.96 |
| TRIKE FLEET | 11.75 |
| TRIKER | 8.75 |
| TUNT CAR RACER (NOT600) (NOT1200) | |
| SUBURBAN COMMANDO SUPAPLEX | 19.95 6.96 |
| | 20.95 |
| SUPER LEAGUE MANAGER | 20.95 20.95 |
| SUPER MONACO G.P. | 8.75 |
| SUPER MONACO G.P. SUPER SEYMOUR SAVES THE WORLD | 6.96 |
| SUPER SIM PACK (COMP) (NOT1200) SUPER SPACE INVADERS | 14.95 8.75 |
| SUPERCARS II (NOT1200) | 8.75 |
| SUPERHERO (1MB) | 23.95 |
| SWITCHBLADE II | 8.75 |
| SWIV SYNDICATE (1MB) | 8.75 |
| ACTICAL MANAGER - ENGLISH | 27.95 23.95 |
| ACTICAL MANAGER - ITALIAN | 23.95 |
| ACTICAL MANAGER - SCOTTISH | 23.95 |
| EAM 17 COLLECTION - VOLUME 1 (1MB) | |
| EAM SUZUKI ENNIS CUP 2 | 6.96 8.75 |
| ERMINATOR 2 - COIN OP | 23.95 |
| ERMINATOR II | 6.96 |
| EST DRIVE II | 6.96 |
| THE BLUE AND THE GREY THE GREATEST (COMP) (1MB) | 27.95 26.70 |
| THE MUNSTERS | 6.96 |
| HE PATRICIAN (1MB) | 26.70 |
| HEATRE OF DEATH | 23.95 |
| THOMAS FUN WITH WORDS (NOT1200) THOMAS THE TANK ENGINE | 16.85 |
| HOMAS'S BIG RACE | 6.96 10.95 |
| HUNDERHAWK | 8.75 |
| TOKI | 8.75 |
| TORNADO TORVAK THE WARRIOR | 27.95 |
| TOTAL CARNAGE | 8.75 23.95 |
| TOYOTA CELICA | 6.96 |
| RACKSUIT MANAGER | 6.96 |
| REASURE ISLAND DIZZY | 4.45 |
| | |
| REBLE CHAMPIONS 2 | 17.65 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 | |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) | 17.65 10.95 6.96 20.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN | 17.65 10.95 6.96 20.95 6.96 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III | 17.65 10.95 6.96 20.95 6.96 20.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION | 17.65 10.95 6.96 20.95 6.96 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA //ALHALLA (1MB) | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE NHALES VOYAGE NHEN TWO WORLDS WAR NING COMMANDER I (1MB) | 17.65 10.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 8.75 23.95 12.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE NHALES VOYAGE NHALES VOYAGE NHEN TWO WORLDS WAR NING COMMANDER I (1MB) NINTER CAMP | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE NHALES VOYAGE NHEN TWO WORLDS WAR NING COMMANDER I (1MB) NINTER CAMP NINTER GOLD NINTER OLYMPICS | 17.65 10.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 8.75 23.95 4.99 12.95 4.99 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE NHALES VOYAGE NHALES VOYAGE NHEN TWO WORLDS WAR MING COMMANDER I (1MB) NINTER CAMP NINTER GOLD NINTER SUPERSPORTS | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 27.95 12.95 4.99 12.95 26.70 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE WHALES VOYAGE WHEN TWO WORLDS WAR MING COMMANDER I (1MB) WINTER CAMP WINTER GOLD WINTER SUPERSPORTS MIX 'N' LIZ | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 27.95 12.95 4.99 12.95 26.70 8.75 23.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE WHEN TWO WORLDS WAR MING COMMANDER I (1MB) WINTER CAMP WINTER GOLD WINTER OLYMPICS WINTER SUPERSPORTS WIZ 'N' LIZ WIZKID (1MB) | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 27.95 12.95 4.99 12.95 26.70 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE NHALES VOYAGE NHALES VOYAGE NHEN TWO WORLDS WAR NING COMMANDER I (1MB) NINTER CAMP WINTER GOLD WINTER SUPERSPORTS WIZ 'N' LIZ WIZKID (1MB) WOLFCHILD WONDER DOG | 17.65 10.96 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 12.95 4.99 12.95 26.70 8.75 23.95 10.95 8.75 20.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE NHALES VOYAGE NHEN TWO WORLDS WAR NING COMMANDER I (1MB) NINTER CAMP WINTER GOLD WINTER GOLD WINTER SUPERSPORTS WIZ 'N' LIZ WIZKID (1MB) WOLFCHILD WONDER DOG WOODYS WORLD | 17.65 10.96 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 12.95 4.99 12.95 26.70 8.75 23.95 10.95 8.75 20.95 8.75 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID NAR IN THE GULF (1MB) NARZONE NHALES VOYAGE NHEN TWO WORLDS WAR NING COMMANDER I (1MB) NINTER CAMP WINTER GOLD WINTER OLYMPICS WINTER SUPERSPORTS NIZ 'N' LIZ NIZKID (1MB) WOLFCHILD WONDER DOG WOODYS WORLD WORDWORTH V3.0 (1.5MB) | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 12.95 12.95 4.99 12.95 26.70 8.75 23.95 20.95 8.75 20.95 79.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID WAR IN THE GULF (1MB) WARZONE WHEN TWO WORLDS WAR WING COMMANDER I (1MB) WINTER CAMP WINTER GOLD WINTER SUPERSPORTS WIZ 'N' LIZ WIZKID (1MB) WOLFCHILD WONDER DOG WOODYS WORLD WORDWORTH V3.0 (1.5MB) WORKS TEAM RALLY | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 12.95 12.95 4.99 12.95 26.70 8.75 23.95 20.95 8.75 20.95 79.95 6.96 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID WAR IN THE GULF (1MB) WARZONE WHALES VOYAGE WHEN TWO WORLDS WAR WING COMMANDER I (1MB) WINTER CAMP WINTER GOLD WINTER GOLD WINTER SUPERSPORTS WIZ 'N' LIZ WIZKID (1MB) WOLFCHILD WONDER DOG WOODYS WORLD WORDWORTH V3.0 (1.5MB) WORKS TEAM RALLY WORLD CLASS LEADERBOARD | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 12.95 12.95 4.99 12.95 26.70 8.75 23.95 20.95 8.75 20.95 79.95 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID WAR IN THE GULF (1MB) WARZONE WHALES VOYAGE WHEN TWO WORLDS WAR WING COMMANDER I (1MB) WINTER CAMP WINTER GOLD WINTER GOLD WINTER SUPERSPORTS WIZ 'N' LIZ WIZKID (1MB) WOLFCHILD WONDER DOG WOODYS WORLD WORDWORTH V3.0 (1.5MB) WORKS TEAM RALLY WORLD CLASS LEADERBOARD WORLD CLASS RUGBY WORLD OF SOCCER | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 12.95 4.99 12.95 26.70 8.75 23.95 10.96 8.75 20.95 79.95 6.96 8.75 12.95 16.85 |
| TREBLE CHAMPIONS 2 TRIPLE ACTION PACK VOL.5 TRIVIAL PURSUIT TROLLS (1MB) TURRICAN TURRICAN III TWILIGHT 2000 J.M.S. COMPILATION JRIDIUM 2 JTOPIA VALHALLA (1MB) VIDEO KID WAR IN THE GULF (1MB) WARZONE WHALES VOYAGE WHEN TWO WORLDS WAR WING COMMANDER I (1MB) WINTER CAMP WINTER GOLD WINTER GOLD WINTER SUPERSPORTS WIZ 'N' LIZ WIZKID (1MB) WOLFCHILD WONDER DOG WOODYS WORLD WORLD CLASS LEADERBOARD WORLD CLASS RUGBY WORLD OF SOCCER WORLD OF SOCCER | 17.65 10.95 6.96 20.95 6.96 20.95 27.95 35.99 20.95 8.75 23.95 8.75 23.95 12.95 4.99 12.95 26.70 8.75 23.95 10.96 8.75 20.95 79.95 6.96 8.75 12.95 16.85 20.95 |
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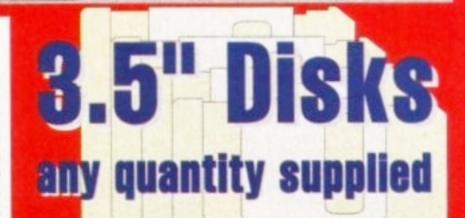
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Es S

HEWLETT PACKARD DESKJET 310

Do you fancy colour printing on the move?

Richard Baguley checks out HP's latest colour portable printer.

've always liked black, and I'm especially pleased to see that this latest model from Hewlett Packard will appeal to the Goth fraternity thanks to its rather nice matt black casing.

It's around a foot long, almost six inches high and weighs in at just under 2kg, so it's easily luggable. There's an optional cut sheet feeder, which can hold up to 60 sheets of paper.

Black and white printouts are good quality – the blacks are solid and the greys smooth – with a maximum resolution of 300 dots per inch.

The colour version uses a cartridge with Cyan, Magenta and Yellow. Keen printer users will have spotted the lack of a black, which means that the printer has to combine all three to get black. Unfortunately, the paper can get sodden with ink when printing images with large areas of black, and the blacks tend to come out looking pale and greenish. Compare

The new Hewlett Packard inkjet printers: the HP310 (left) and the HP560C.

the sample printout from this printer with that from the 560C (right), which includes a black cartridge. Apart from this, the colours are generally good.

The ink cartridges are not cheap at £29.99 for the colour and £24.99 for the black and white, but they seem to last a reasonable time. I wasn't able to get details about how many pages you could expect from each cartridge, figures are notoriously unreliable anyway.

This printout from the Hewlett Packard 310 was produced using the HP500C driver supplied with Workbench.

HEWLETT PACKARD DESKJET 310

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DISTRIBUTOR

Phoenix Computer World 0532 350091

PRICE

£224.99 (Mono)/£259.99 (colour) £49.99 (sheet feeder)

SPEED

Produces two pages of text per minute, although it's much slower with graphics.

PRINT QUALITY

Text is sharp and crisp, with a slight fuzzing on the edges. When printing in colour, blacks appear very poor.

ACCESSIBILITY

Very simple to use, especially with the sheet feeder. The controls are well set out and easy to use.

FEATURES

Can print in both colour and black and white, although you need to swap the cartridges manually.

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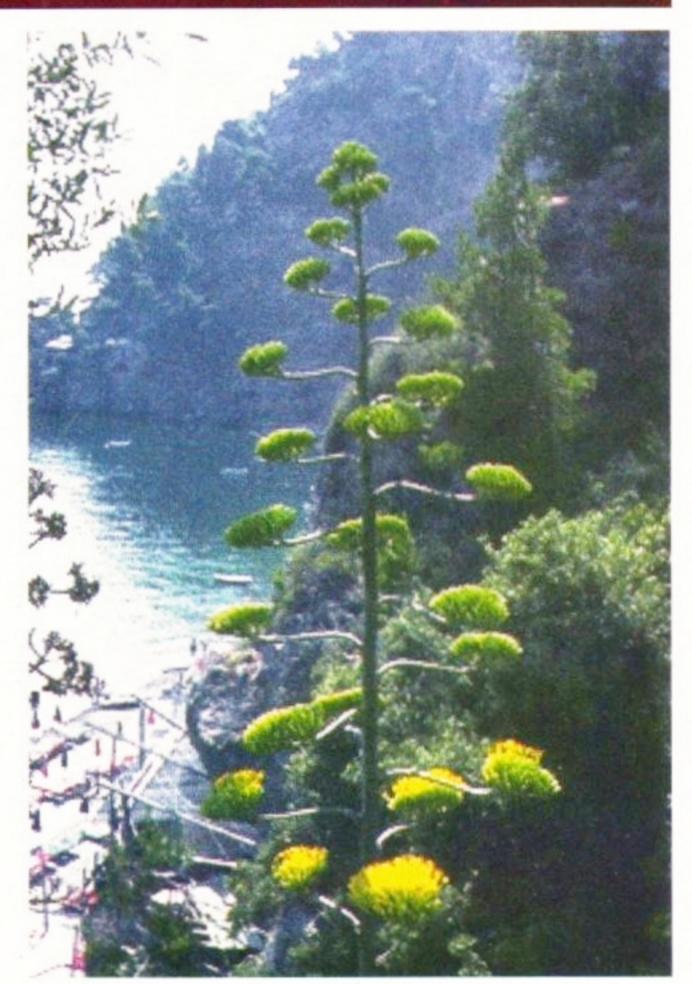
VALUE

The HP Deskjet 310 is comparable in price to the Canon BJ200, and the quality is nearly as good.

"A very good and solid printer with high output quality and a colour option."

89%





The quality of this printout from the Hewlett Packard 560C speaks for itself. It was produced using Wolf Faust's Studio Printer software.

HEWLETT PACKARD DESKJET 560C

Or would you prefer something that's a little more heavyweight? The normally thrifty and environmentally-friendly Richard Baguley wastes vast amounts of paper testing the HP560C.

his new printer is an upgraded version of Hewlett Packard's popular 550C inkjet printer, although the only real change I can find is the extra 10 to the name. Isn't progress wonderful?

The HP Deskjet 560C is certainly not a small printer. It weighs in at a fairly hefty 6.6kg and measures 17.5 x 8.2 inches, so it's going to take up a considerable amount of space on your desktop.

A cut sheet feeder is built into the front of the printer, which can hold up to 100 sheets of paper. Two ink cartridges can be fitted at once, so you can produce both colour and black and white prints without having to swap cartridges.

The normal resolution of the HP Deskjet 560C is 300 x 300 dots per inch, but there is also a special 600 x 300 resolution which only works when you print in black and white. Unfortunately, this isn't supported by any current Amiga driver.

Black and white print quality is extremely good, with clear, sharp text. Six fonts are built in to the HP Deskjet 560C, including Courier and CGTimes. Greyscale images are also of a very high quality, with smooth greys. although there is just a trace of banding.

It's not the fastest printer I've ever seen (with a quoted speed of around two pages per minute or 167 characters per second), but it's pretty nippy for an inkjet. Regrettably, Hewlett Packard have not supplied updated printer drivers with the 560C, so you're stuck with the Deskjet 500 driver which is included with Workbench. This isn't particularly satisfactory because the 500C did not have a black ink cartridge, so you can't use it with the 560C when you print in colour.

This means you don't get the best out of the printer unless you spend extra money on buying an updated driver through a printer enhancement program such as Studio or TurboPrint, although a cut down version of Studio is available from Hewlett Packard's Amsterdam office (Tel: 010 31 20547 9999) for £7.

Both of these programs include drivers suitable for the 550C, which will use the black cartridge. I really can't understand why Hewlett Packard haven't written a special Amiga driver, because other printer manufacturers, such as Canon and Star, have done so. They aren't particularly difficult to write, and I'm sure there are enough Amiga users out there to justify it.

The Deskjet 560C is a fine printer, which will no doubt give many years of use. The black and white printing quality is extremely good, with sharp text and smooth greys.

The colour printing is also impressive, but it really is disappointing that you have to spend more on a new printer driver to get the most out of it. PC and Mac users don't have to put up with this, so why should we?

HEWLETT PACKARD DESKJET 560C

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DISTRIBUTOR

Phoenix Computer World 0532 350091

PRICE £489.99

SPEED

Nowhere near as fast as a laser printer, but it prints at a speed comparable to other inkjets.

PRINT QUALITY 0000

Text is the same excellent quality as the 310, but the blacks in colour printouts are much better if you use a decent driver.

ACCESSIBILITY

0000 For everyday use, it's just a question of plug in and go. For colour use, extra expense and fiddling is required.

FEATURES

Contains both black and colour cartridges in one, so there's no need to swap them over.

0000

0000

VALUE

It's more expensive than the 310, but the quality is better (with a good driver) and it stands up to more use.

"An excellent desktop printer, even though there is no Amiga driver provided for it."

85%



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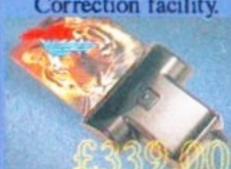
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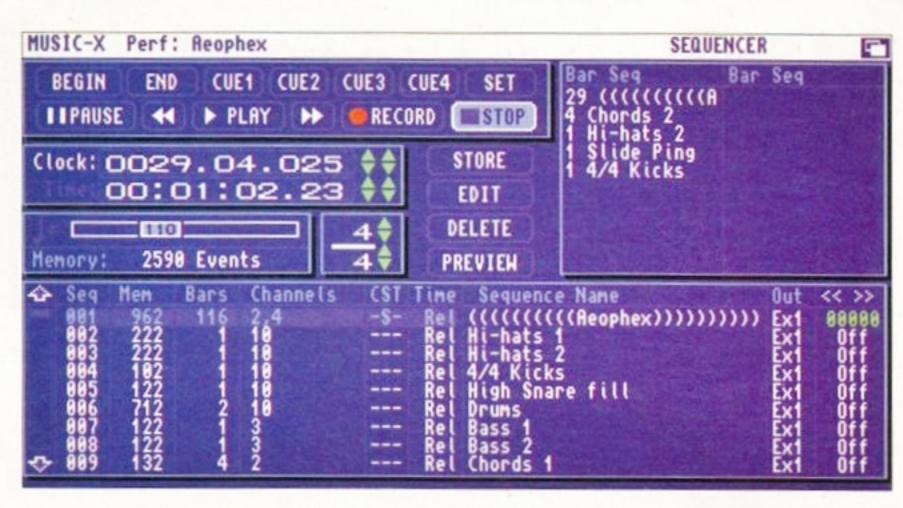
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GOLDENIMAGE (UK) IS THE SOLE DISTRIBUTOR FOR ALFADATA PRODUCTS IN THE UK

The update to the most popular Amiga MIDI sequencing package has been a long time coming, but at last it's here. Maff Evans finds out if it was worth the wait.

The main control screen of Music-X 2.0 looks familiar enough – it's just the internal workings and functions that have been improved.



MUSIC-X2.0

ave you noticed how many reviews start by giving you a little slice of history to back up the program being reviewed? Well, I'm sorry to say that it's unavoidable with *Music-X 2.0*.

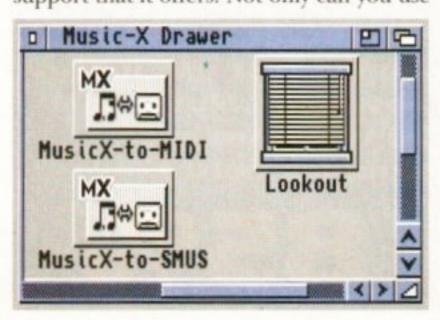
The original *Music-X* package came like a bolt out of the blue and showed that the then still fledgeling Amiga 500 could be much more than just a games machine. Powerful MIDI tools and an extremely friendly graphical editing interface made it a firm favourite with Amiga musicians, mainly because earlier programs had complex editing systems (usually involving typing in data) and the most rudimentary of Amiga sample implementation.

Music-X put paid to all that, providing an intuitive method of manipulating MIDI data and enough control over samples to make their use viable.

Anyone who has dabbled with Music-X (featured on AF58's Coverdisk) will know what I'm talking about, but serious MIDI users will be dying to know what's on offer with the latest version of the program.

We haven't really got space on these pages to go through all the functions of *Music-X*, so we'll have to assume that you've already got to grips with the fundamentals of the system from using the Coverdisk (if you haven't, get yourself a copy pretty sharpish – see page 148) and concentrate on the major additions and alterations with the new system.

With this new version, the first element to become apparent is the MIDI system support that it offers. Not only can you use



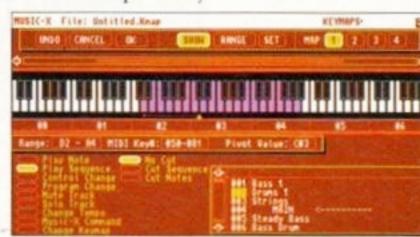
Keep tabs on MIDI data and convert files between Music-X, SMUS format and Standard MIDI File format using these extra utilities.



a standard MIDI interface connected to the Amiga's serial port, but you can also utilise multiple MIDI channels. Up to eight 'banks' can be used as totally separate MIDI outputs (effectively giving you up to 128 MIDI channels to play with), the configuration being controllable from within the software.

There is also the option to directly access Blue Ribbon's *One Stop Music Shop* board, which wasn't possible with previous versions of *Music-X*.

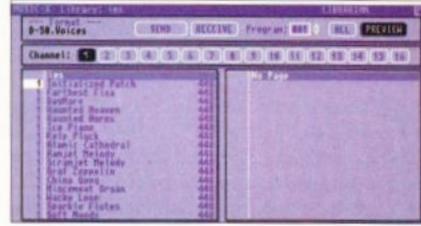
To take compatibility even further, there are two utilities on the disk that enable you to convert *Music-X* sequence files to either SMUS or Standard MIDI File format (covering both formats 1 and 0). This makes *Music-X* a more viable professional music tool, because you can stick a MIDI file on a PC disk and load it into just about any sequencer on a Mac, PC or ST. *Cubase* compatibility – at last!



Trigger notes, control changes and sequences from an external keyboard in a more fluid way using the slightly tweaked keymap editor. On to the editing side and we have yet more additions – mainly in the form of new modules. The Quantize function has been radically updated, allowing you to control the shift using a graphical note system similar to the Grid function. Enter an offset for bulk-shifting notes and even give a limited amount of Quantize to keep a human feel. You can even perform a form of 'un-Quantize' using the Scatter and Swing options. Scatter moves notes around the beat so that a more random, 'human' feel is introduced, and Swing pushes events earlier or later so that notes don't appear bang on the beat.

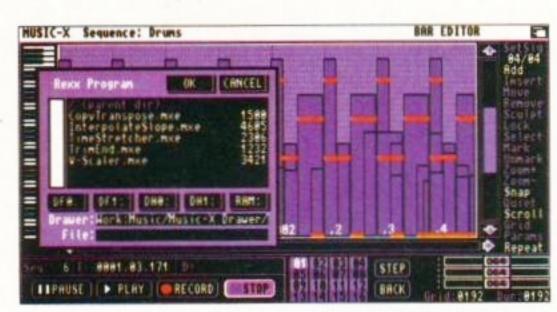
To assist editing, there is a Logical Select function, so that you can highlight events by type and channel, rather than having to go through and box around each event in turn (a time-consuming and often infuriating process). Another useful

Continued overleaf



Unlike 1.1, libraries from old versions of Music-X also work with the new version. Thank goodness they got that right this time.





You can now link to other programs or create your own modules with ARexx support.



The Quantize II window now enables you to set up more quickly and even control the amount of Quantize to apply.



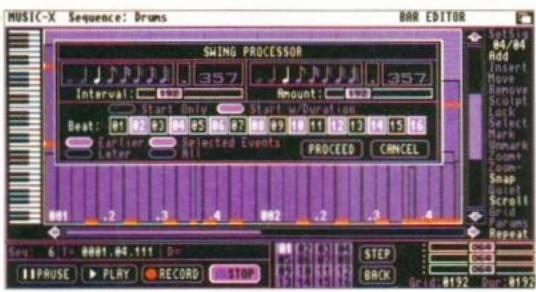
No more fiddling with the Select tool to pick out particular channels and events - just use the Logical Select function.



Fed up with those double-triggered notes causing problems? Get rid of them using the De-Flam option.



Add a human feel to sequences by setting up a note scatter effectively 'un-Quantizing' a sequence.



Add tension or laziness to a groove by pulling notes backward or forward using the Swing function.

edit tool is De-Flam, which takes out duplicated events that appear close together (which not only sounds bad, but makes it difficult to move data around). Add to these the option to print out a list of events and ARexx support and you've got a serious set of editing tools.

There is one point I hoped would be altered on this update, but unfortunately it hasn't. The use of continuous controller messages remains the same as with the previous version. To add messages such as pitch-bend and touch after using the mouse, you have to enter the events one by one, rather than just drawing a curve as with many other sequencers. Not only does this take a lot of time, but it also means that the settings aren't reset after playing them so the pitch bend, for example, is stuffed full up rather than dropping back to zero, making the channel play out of tune. Maybe it's just me, but I'd prefer to be able to just drag a curve into shape with zero settings staying put at either side. Other programs manage to do this, so why can't Music-X?

One serious alteration that has been implemented is the use of Amiga samples. Music-X was good enough at this, but version 2.0 goes a lot further. All the previous functions are there, such as tuning and envelope shaping, but the actual way that samples can be played is much better.

You can now choose whether to select sounds by channel (as on previous versions) or by using program change messages to call up any of the 64 (yes, that's right, 64) samples in memory. If that wasn't enough, sample volume can now be controlled using velocity rather than having to stay at a set level all the way through. It's about time, too.

To put it mildly, Music-X has been improved quite a lot. Many welcome additions are in place and other elements have been tidied up. The new editing, scorewriting and data transfer systems take the program out of the dedicated home-user market and make it a viable tool for professional musicians. There are a few niggles here and there, but to be honest what was there originally wasn't awful by any means and version 2.0 has improved on what was basically a friendly and, pound-for-pound, extremely powerful sequencer.

If you've enjoyed Music-X in the past, either as a long-time user or just since the Amiga Format Coverdisk, don't hesitate to make use of the upgrade offer and start seriously working on your music.

NOTATION, OR 'THEM OLD-FASHIONED SCRIBBLY BITS'



Edit and print out notation of your MIDI sequences using Notator-X.

So far we've skipped the most significant addition to the Music-X package - Notator-X. Written by Liverpool-based Desert Software, Notator-X is a full score, printing and editing package - effectively a word processor for musical score.

Data can be loaded in from disk or dumped straight across from Music-X while it is running. You can choose how the data is displayed down to the minutest detail - from the form of the staves to the way that linked notes are shown. Every element of a score can be edited as well, adding and removing notes, choosing the type of rest to use and even adding lyrics it's all possible in Notator-X.

One thing that you can't do is play back MIDI sequences from the program. To do that you'll have to dump the data back into Music-X.

MUSIC-X 2

00000

DISTRIBUTOR Software Business 0480 496497

PRICE

SYSTEM REQUIREMENTS 1Mb

SPEED

£199

Extremely quick. Even the most intensive MIDI editing functions are lightning fast.

MANUAL

0000 Sometimes the instructions are a little long-winded, but everything is covered to a certain degree.

ACCESSIBILITY

0000 For writing songs it's a doddle, but some of the keymap and librarian functions take time to learn.

FEATURES

Lacking in continuous controller editing features, but this is mostly made up for by other control functions.

0000

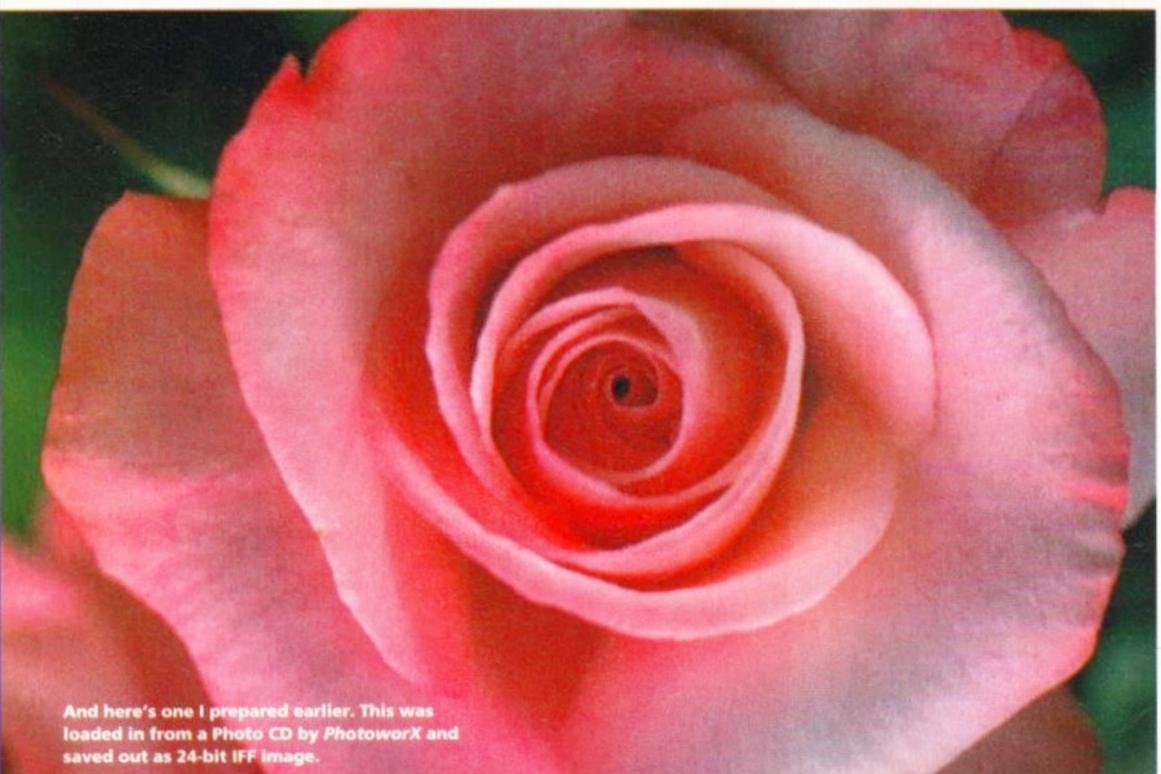
VALUE

00000 A full-spec MIDI sequencer and notation package for under £200 isn't something to be sniffed at.

"The friendliest MIDI sequencer for the Amiga just got more powerful. Nothing handles Amiga samples better"







PHOTOWORX

Richard Baguley focuses on the new German software that puts the Amiga in the frame with Photo CD.

n the world of computing, the future is round with a silver bottom. Nobody denies that CD is the way forward, and it's now beginning to spread into the world of photography.

Kodak have defined a standard which enables you to store up to 100 images on a single CD in 16 million colours and a wide variety of resolutions. This means that Photo CD is a good way of getting your images scanned in for use in DTP or multimedia - the quality is extremely high and

Choosing your image

is easy because PhotoworX presents them on a handy contact sheet.

THE IMAGEFX LOADER

If you have GVP's excellent image program ImageFx, you don't need PhotoworX, because German coder Gunnar Niclase has written a loader which allows you to load Photo CD images straight into the program. This was featured on the AF58 Subscribers' Superdisk, and is available from any good Public Domain company or Bulletin Board.

it's a lot cheaper than buying a scanner capable of producing comparable results.

Support for Photo CD has long been available for PCs and Macs, but it's only recently come to the Amiga. German programmers Corporate Media have now released PhotoworX, which enables you to read Photo CD images on any Amiga.

The first thing you are going to need is an Amiga equipped with a CD drive capable of reading Photo CDs. This requires a drive capable of supporting the XA standard, so check this before you buy.

The drive used in this review was an Apple CD300 (about £170 from a Mac dealer) connected through the SCSI port of an A3000. The Tandem Controller and

Mitsumi drive is also suitable. This was reviewed in AF59, scored 85 per cent, and costs £69 for the controller, and £169 for the drive. It's available from Golden Image 081-365 1102 and Mitsumi on 0276 29029.

Included with PhotoworX is a copy of AmiCDROM, a PD device driver which enables you to read CD-ROMs as if they were Amiga disks. This also enables you to read discs intended for PCs or Macs, but you can't run the programs on them.

Once you've installed the software, just double-click on the program Icon and you're in. You can either load an image straight in for viewing or load a contact sheet, which shows a small version of each of the images on the disc. Double-clicking on any of these brings up a bigger version, and both the size of the contact image and the viewing one can be altered.

The images can also be viewed in their full 24-bit glory if you have a Picasso II, Retina or EGS graphics card, but the contact sheet uses a lot of Chip memory, if you have the full 100 images on your disc.

Being able to look at your Photo CD images is one thing, but what you really want to do is load them into paint or DTP programs. To do this you can either save out the images you are viewing, or PhotoworX can export them as IFF files with between 2 colours and 16 million colours.

All of the Photo CD resolutions (from 128 x 192 to 2048 x 3072) are supported, although *PhotoworX* does need to load the entire image into memory before saving it out. Because the images I used were around 18Mb in size. I was unable to export any images at the highest resolution on my 16Mb A3000 without using the Gigamem virtual memory.

PhotoworX is very easy to use and fast, but it is too expensive. The alternatives are a PD Photo CD Loader for ImageFx or the PD program HPCDTOPPM.

 The images used in this review are from various Photo CDs in the Andromeda Interactive series, which cost £44 each. Andromeda Interactive can be contacted on 0235 529595.

PHOTOWORX

DISTRIBUTOR

Blittersoft 0908 220196

PRICE £89.95

SYSTEM REQUIREMENTS Workbench 2 or above, 2Mb of memory CD-ROM (XA) drive.

SPEED

0000

Loads images with acceptable speed, given the amount of data that is being thrown around the place.

MANUAL

0000

000

Covers most functions well, but could do with more technical details.

ACCESSIBILITY

Easy to use, but you need an extremely powerful machine.

FEATURES

0000

PhotoworX performs at a pretty good speed. Some basic image processing tools are included.

VALUE

Way too expensive for a relatively simple program. ImageFx owners can load Photo CD images for free!

"A fast and powerful **Photo CD conversion** program, but it's expensive. It needs a large hard drive to run effectively."

60%

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When he's fiddling with his files or rummaging in drawers Nick Veitch prefers to use a directory utility.

ovice Amiga owners quickly discover two things about their new machine. Firstly, it is bloody astounding and it's hard to understand why CBM haven't sold more of them. Secondly, dealing with all the files and drawers can be a bit of a drag.

Using Workbench to move files around is fine, but if you choose the View All Files option (for files which don't have icons) the whole thing slows down an awful lot, and can be a little confusing.

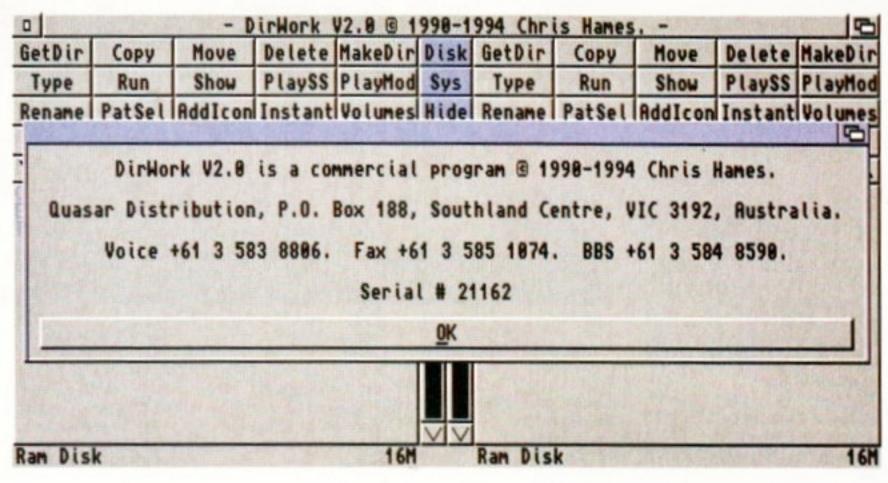
On the other hand the Shell is OK, but only if you can remember the secret spells and magic words that make things happen. Added to that, you have to keep doing a Dir to find where you are and what files are available - then there's all that typing.

The best idea is a sort of halfway house, a directory utility, which, unsurprisingly, is where Dir Work2 comes in. Programmed by Chris Hames of PC Task fame, Dir Work2 is, on the surface, very similar to other utilities of this type such as SID and Directory Opus.

The default settings bring up a familiar looking screen, with two directory listing windows and an array of buttons. Actions are performed by clicking on an entry in the Active File List and then clicking on a button from the list above. In this way you can copy and move files, view pictures, play samples and read text - all without having to type in a single word.

To change the directory path you can type insructions, but it's easier to use the buttons or double-click on drawer names to find your way around disks.

Dir Work2 is highly configurable. It can open up on virtually any type of screen, including opening as a window on Workbench. You can change the size and



DR WORKS

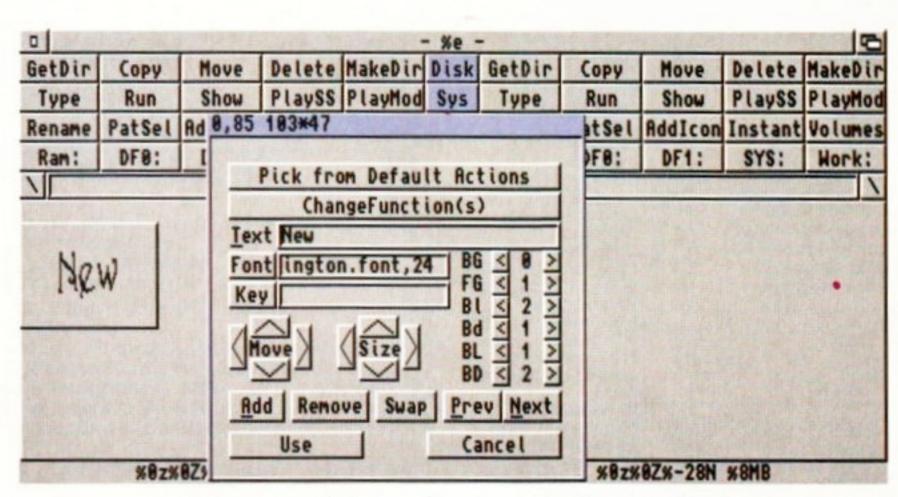
Being able to create your own buttons with a custom size and position is good, but the method of getting there is lousy.

Dir Work2 is a

perfectly competent

directory utility, but it does look a little

drab to say the least.

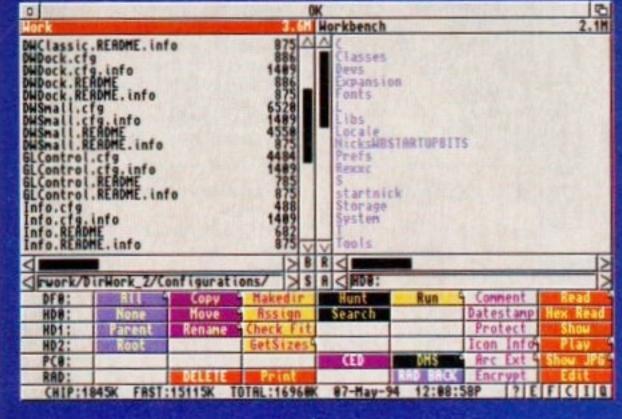


style of all the buttons, scroll bars and menus even to the point of just creating a window consisting entirely of buttons, which can serve as a useful program launching utility.

The great shame about Dir Work2, and something that I hope is fixed for the next version, is the interface. Everything is grey and dull and there's no way of choosing custom colours. Aside from the aesthetics, some of the controls are a bit weak. For example, when creating buttons you have to click on little arrows to size and place the button, rather than being able to simply drag and click it with the mouse.

Dir Work2 is better than nothing, but it doesn't come close to Directory Opus. Although it's a bit cheaper than Opus, it doesn't hold its own against Shareware programs like SID. And for a fiver you could always get a back issue of AF55 with DiskMaster on the Coverdisk.





If you compare Dir Work2 to the main player in this market, Directory Opus, it may look a little plain and boring, but the facade belies a wealth of power and configurability.

Dir Work includes many of the functions of Opus, but also has many additional features such as the ability to add Appleon support, custom buttons and tool menu support.

DIR WORK2

0000

000

DISTRIBUTOR **Meridian Distribution** 081-543 3500

PRICE £69.95

SPEED

Fast enough, particularly quick at reading directories, which is useful.

MANUAL

The manual does go into very great detail explaining all the options, configurations and other aspects of the software, but it is hard to find your way without an index!

ACCESSIBILITY

000 As you would expect, everything is very much point and click, even when configuring the system.

FEATURES

Some very powerful features, such as Applcon support and a built-in system monitor.

000

VALUE

Hard to recommend at this price, given the excellent competition.

"A very useful tool, but it needs to be improved quite considerably to justify the large price tag."

60%

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to forget the fact that requires programming the painstaking task of typing in lines and lines of tricky text, and think instead of drawing a program on-screen using little boxes and arrows.

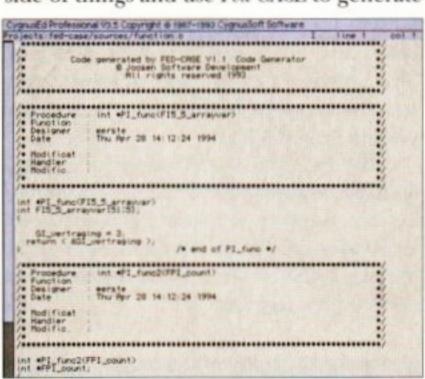
I'm not thinking of a Visual Basic system such as CanDo or Help here, but a real, honest-to-goodness programming language using flow diagrams.

Fed-CASE is an attempt to bring a real Computer Aided Software Engineering (CASE) tool to the Amiga. It sounds like an unlikely idea, but it works, and it works well. Planning and coding your program happens almost simultaneously. You build up the chart using small icons to represent the processes, functions, assignments, conditions and loops and so gain an overall view of the program's structure.

The text you add to the icons is actually C source code. Variables and functions are freely available, but must be given intelligent names to indicate their type (byte, signed, pointer and so on). When you have finished your design, a menu option generates all the C source you need, ready to load directly into a compiler and create your program. However, Fed-CASE won't create finished programs for you because you need a compiler to create the executables.

The rest of the program is entered by you, but the source is subtly different from hand-written programs. For starters, all the variables and functions have consistent names, a fact which can stop 90 per cent of bugs. Secondly, the program creates hundreds and thousands of intelligent comments in your code, including details of the purpose of each function. Lastly, the source code might actually make some sense when you look at it in three weeks time, because the flowchart is an excellent form of documentation.

Because C is such a portable language, it turns out that any non-Amiga specific source generated works perfectly well on other platforms. You can also forgo the C side of things and use Fed-CASE to generate



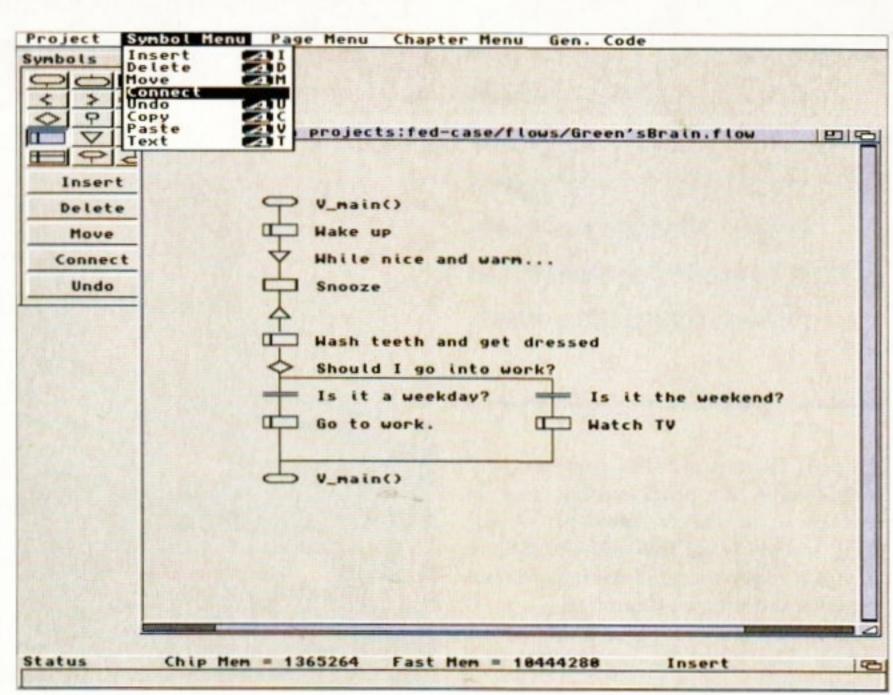
THINGS TO COME

The code generated by Fed-CASE looks good. It's well spaced out, with all the tabs and brackets in the right places and lots of comments. However, there should be greater control over the smaller points.

Fed-CASE is an on-going project, and there is a Professional Level version planned in the near future incorporating all sorts of advanced features which are currently covered by a nondisclosure agreement.

It would be nice to see a cross between this program and a GadToolBox-type intuition interface creation system. There are also rumours of a Windows-compatible Fed-CASE, which would greatly simplify cross-platform development.

Using the program for non-programming applications can help explain difficult concepts - here for example, is how Nick Veitch's mind works.



Computer Aided Software Engineering is a subject which has so far eluded the Amiga's programming scene. John Kennedy checks out a new labour-saving program.

> more general flowcharts, or you might use it to plan a complicated piece of Assembler or Pascal or Basic programming. In these cases Fed-CASE doesn't do anything a pen and a sheet of paper can't do, but it does it extremely neatly and enables you to file things away properly.

> Minor problems with Fed-CASE are the way symbols are entered. Using the right mouse button to add items is not intuitive, and can make pull-down menu accesses a nightmare. Another failing is that the text editor doesn't use Amiga key short cuts.

> However, the major problem is the choice of a style of flowcharting which all

modern software engineers have long since left behind. These days, flowcharts are usually of the hierarchical data flow variety, which makes the data (not the program itself) the important part of the process.

Fed-CASE is one of those programs you think you ought to have, but you're not sure if you would really use it - a bit like hard drive back-up software. I now think backing up a hard drive is essential, and I also intend to use Fed-CASE when programming. At worst it can be used as a basic planning tool, and at best it can actually generate my C source for me.

FED CASE V1.1

DISTRIBUTOR **FEATURES** 000 **Brian Fowler Computers Ltd** A very novel idea, at least on the Amiga. Dedicated C buffs should think 0392 499755 carefully about getting it. PRICE VALUE 000 £74.99 Rather pricey for a program which has a definite Shareware feeling about it. SPEED A 68020 processor is recommended, "One of the most because larger programs can take interesting some time to process. programming tools 000 MANUAL yet for the Amiga, The phrasing is extremely stilted in but lacking in places. I find it hard to believe that it was, as is claimed, proof read by refinement." native English speakers. ACCESSIBILITY 000 Rather difficult to use in its present 70% form. Fed-CASE needs a v2 update to clean up the user interface.

With the right software invaluable tool for children of all ages. **Tracy Osborne** puts the latest educational releases to the test.

marty Paints sets out to provide a customisable art program that can be tweaked to fit the requirements of any child, and which will grow with the child as they gain experience and confidence, and require more advanced features.

It does this by providing a dual menu system. The Main Menu occupies the entire screen and shows all the options available, while the Smart Menu is userdefinable, giving access to the colours and selected functions. So, if you feel that some functions are inappropriate for your child, simply don't include them in the selection.

When the Smart Menu is switched on, it is overlaid on the workscreen, and can be dragged up or down, or temporarily hidden by a simple right button click. A second click returns it.

Lock on the Smart Menu, and you're in small kids' mode - no access is available to either unwanted keyboard short-cuts or

an Amiga can be an SMARTY PAINTS

and easy to use and is

fine for doodling or

ambitious projects.

The Smart Menu at

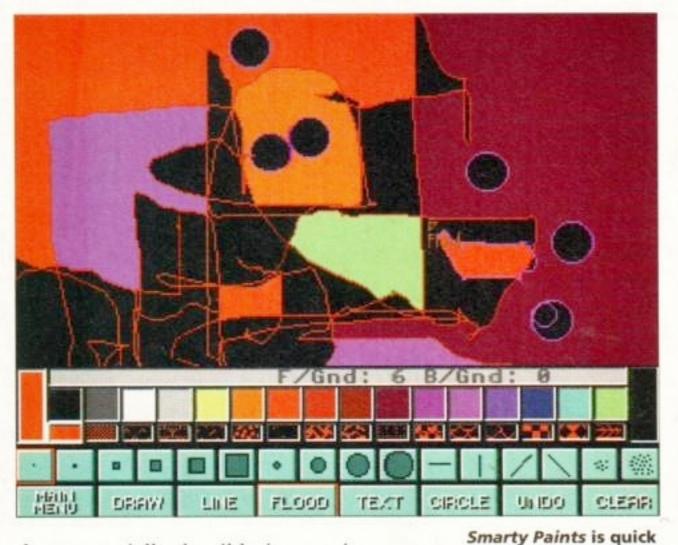
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creating more

or hidden

Chroma Computer Images 0328 862693 **1** £28.50



the potentially bewildering main menu (except by a combined Help/M keypress, in the latter case).

If all this sounds complicated, I have to say that, at first, it also looks it. But it all soon fits into place. Once you have carefully designed a tailor-made Smart Menu for your budding Picasso, this can be saved to a workdisk and kept for personal use. Load this disk and you're straight into the custom configuration.

It's possible to drag a Smart Menu so that the functions are off-screen and only

the colours are visible, then select Draw and 16 Colours, lock it, and you have a basic freehand drawing program and palette which even a very young child could quite happily play with.

The text on the buttons can be changed to icons, which again could be useful for pre-readers. Alternatively, there is a 32-colour mode, a range of nozzle shapes, some very attractive fill patterns, outline and solid shapes, horizontal and vertical symmetry modes, x4 zoom, and many other functions.

Standard brush, picture and palette files can be loaded, as well as standard bitmap fonts. Files can be saved to disk, printed, or exported into other packages. The only thing that seems to be missing is an airbrush.

VERDICT

"Smarty Paints is sound value for money and is a good introduction for the young Amiga artist."

H 14/16 (GCSE PACK

Europress Software Ltd 0625 859333 **E** £34.99

The ADI packages come on three disks, L the first loads the ADI Environment, and the other two each cover half of the 14-16 age range.

Once booted, the environment presents the student with a colourful classroom-style image. ADI himself, an animated three-million-year-old nomadic alien, is visible in one corner and immediately starts to chat.

Soon ADI knows your name and date of birth, and you know what all the buttons at the bottom of the screen do. In fact, they allow you to flip between sections, select tools (the diary or calculator), access special documents, play games, call for help, or quit.

You can play background music, change the colours, and select the clock and the plant you prefer. I like the cactus.

The applications start with fairly simple point-and-click multiple choice questions, like matching English and French words, or filling in the correct verb endings, and progress to questions based on sentences or text passages.

On-screen help is always available, to explain such things as the workings of the Imperfect Tense, and there are English/French dictionaries containing all the vocabulary used. The French 14-15 application teaches French in a holiday

U.F.O. sighting TUESDAY 21/09/93

crash course style, dividing the course into the headings: Geography, Pocket Money, Occupations and Careers, Lost and Found, Holidays, and my favourite - Police File.

This last one tells you all about how to go about reporting theft, accident, or UFO sightings. And because it's fun, it means

a space rocket wine fusée interptonétaire ...

Select the area in which you want to test your vocabulary and grammar by moving the pointer around the screen

that the student is learning or revising vocabulary and grammar painlessly.

The 15-16 disk concerns two English teenagers, Tom and Lisa, as they seek employment in France. The source material includes the ads they read, their letters and phone calls, interviews and application forms, newspapers and diaries.

We follow them on their journeys by plane and boat, and into their new jobs. This provides a good range of subject matter, which may be useful for more than just passing tests at school.

ADI French is a very successful attempt to make learning French fun. Of course, it's not going to improve a student's pronunciation or their conversational skills, but as a GCSE revision aid it is definitely a worthwhile program.

VERDICT

"The colourful screens and interesting questions make this an enjoyable way to learn and revise."

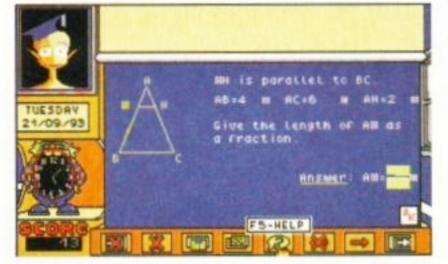
Is the French for 'a space rocket' really 'une fusee interplanetaire'? Click the mouse button and ADI will reveal all.

ADI MATHS 14/16 (GCSE PACK)

Europress Software Ltd 0625 859333 ■ £34.99

The areas tested in *ADI Maths* are, in National Curriculum terms, Number, Algebra, and Shape and Space, with additional Data Handling on the 15-16 disk. I approached this application with some trepidation because it's been a long time since I studied GCE Maths and I don't often use the kind of skills required here.

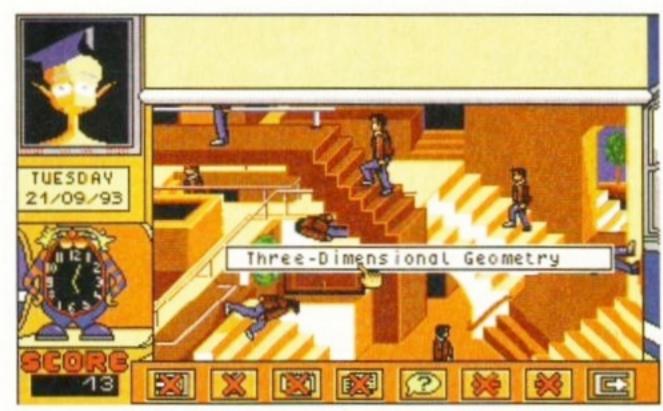
The solution was to plunge into areas in which I would struggle and see how the program helped me. Instead of multiple



'Ooh, I know this one, no really I do. It's, um...'
Press F5 if you want ADI to help you out

choice and point-and-click quizzes, the maths applications present maths problems, some of which are in a practical form (although why anyone should want to know how many grains of sawdust there are in four kilos is beyond me).

There are grids and diagrams to refer to, and editable fields to type in numerical



values. The documents available on disk are useful and explain at some length the mathematics involved. The help files often contain the specific formulae required to reach the solution.

The calculator tool is not all that useful; clicking on the small buttons can be tricky, and the calculator itself obscures part of the question and cannot be dragged elsewhere. This is a shame, because you need a calculator, as well as a pencil and lots of paper.

I found that Geometry and Transformations held no horrors, the help was good, the questions followed a logical progression at a reasonable pace and so I made good progress. Fractions and Powers and Factorising and Expanding were somewhat more problematic, but the program design was good enough to cope with my floundering.

If you get a question wrong, you can have two more attempts, along with advice to read the help file again, before the solution is revealed.

If you consistently give wrong answers you are given a simpler example, perhaps an equation that contains no negative numbers, before being lead towards the more demanding stuff.

Happily, with the help of ADI, I was able to feel a sense of success, which is the key to a good learning experience. ADI Maths a fine example of how Amiga software can enable a persistent young learner to set his or her own pace and reach a real sense of achievement.

VERDICT

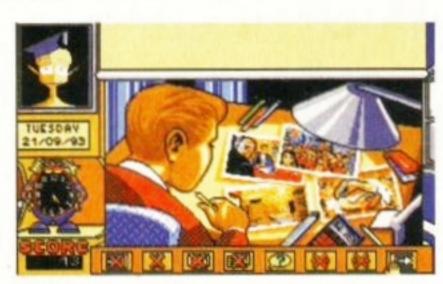
"An excellent way to learn. A child can feel a real sense of achievement with ADI Maths."

86%

A DI English aims to teach three of the National Curriculum Attainment Targets: Reading, Writing, and Spelling and Presentation, in a series of test-style questions. These are mostly point-and-click multiple choice, but also give the learner some opportunities to complete answers from the keyboard, and in some sections there are also passages of text to be read before answering questions.

Unfortunately, what could have been a useful learning experience is ruined by inconsistency and extremely sloppy editing on the 14-15 disk.

The English used is just not good enough for an educational program. For example, the help notes on punctuation: 'As you can see, it's much easier to read with a comma, put in the right place of course, in a sentence.' There are also overlong and poorly-punctuated sentences, and a great many non-sentences which don't contain verbs. Even worse is the catalogue of spelling mistakes; not only: riffles



If you want to explore the options, click on the icons or ask ADI for help.

ADI ENGLISH 14/16

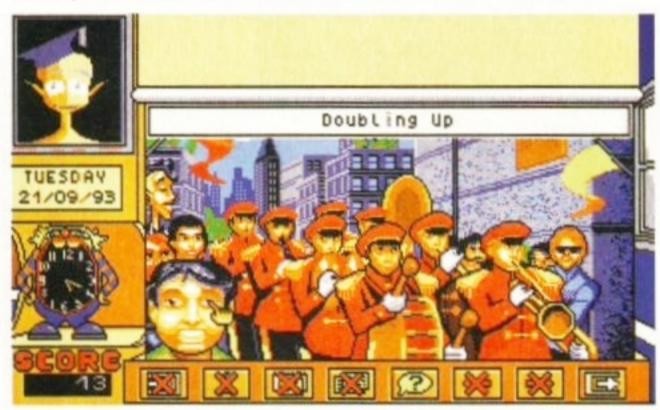
Choose the subject

concentrate on from the ADI Maths title

you want to

screen.

Europress Software Ltd 0625 859333 **E** £34.99



(rifles), cracled (crackled), smugled (smuggled), Christams (Christmas), omlette (omelette); but also: ready instead of read, manoevours (manoeuvres), infinitessimal (infinitesimal), suiter (suitor), and a rabbit called Botbail! There are some others, but my favourite mistake has to be magnificient.

The second disk presents a five-part police investigation. In the first two parts the student reads evidence, such as letters, memos and advertisements, and answers questions, some of which are relevant to the case, but which are meant to teach onomatopoeia, tone, or sentence structure. From a promising start the theme isn't developed. Instead of further evi-

The bright and colourful screens may look good, but ADI English contains far too many spelling mistakes to be a useful learning tool.

dence the investigations move away to text passages with no real relevance to the case. These are all by real authors: so extra marks here.

Even more extra marks would be available if it wasn't such a safe, conservative team: Dickens, Lewis Carroll, Wordsworth, Shakespeare and DH Lawrence (no, not the sexy stuff). They're all male, all white, and all dead. I'm not going to get PC about this, I'll just say that the selection reveals a narrow approach to literature which cannot fail to be reflected in the questions ADI then asks.

This package shows how inappropriate a right/wrong approach is to teaching an arts subject, and in places *ADI English* presents a very poor example to young readers and writers.

VERDICT

"Even without the many unacceptable errors this package won't inspire a love of language."

28%

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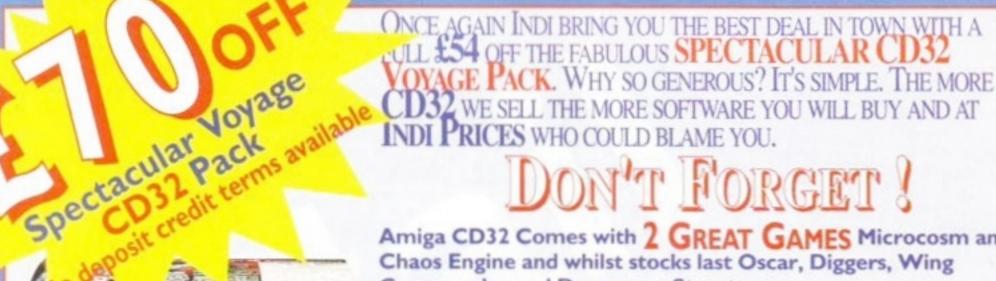
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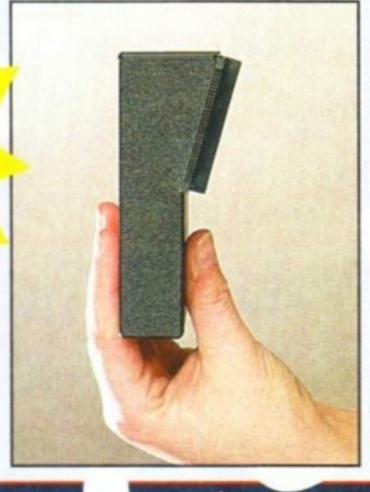
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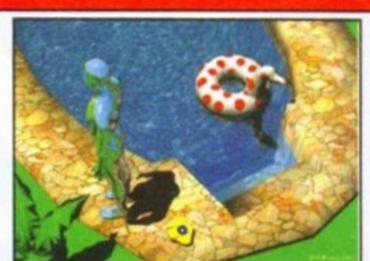
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Richard Baguley guides you through the world of star spotting and shows you some laugh-out-loud animations from the exciting world of Public Domain games and utilities.

ynostic have been slowly building up their own collection of utilities, and this is the 33rd disk in the set. It contains *CD*³² *View*, a disk magazine; *Lazybench*, a menu utility; and *Filer*, a directory utility.

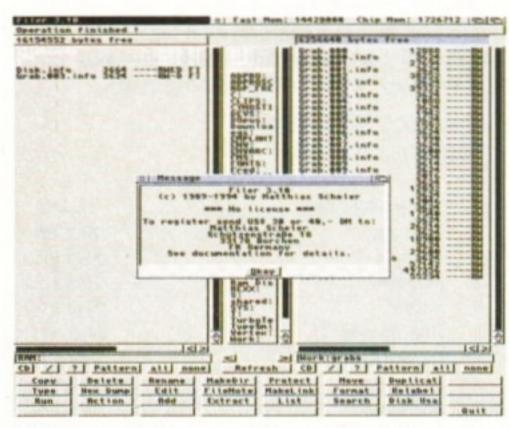
CD³² View is an electronic magazine for the CD³² which is nowhere near as good as the priceless organ that you are holding in your hands, but it's a good first try. Produced in AmigaGuide format, you move between articles by clicking on hotspots on the screen with your mouse.

Lazybench is a Workbench menu utility written by Werther Pirani. It enables you to add items to the Tools menu, so you can kick off any program without having to open its window. Lazybench is easy to use, because all you have to do is add your programs to a list and it adds them to the menu.

The final item on Cynostic's disk is *Filer*, a very good directory utility program which bears more than a passing resemblance to *Directory Opus* and *Diskmaster*. It's Shareware, so the full version will cost you 40Dm or \$30. You will also need Workbench 2 or above because the author considers version 1.3 to be obsolete. All of the usual functions are present – you can copy, rename, run and extract LHA archives, but you can't format disks on the unregistered version. An annoying requester also pops up every few minutes until you register. It's not as powerful or flexible as *Opus* or *Diskmaster*, but it's a useful program nonetheless.

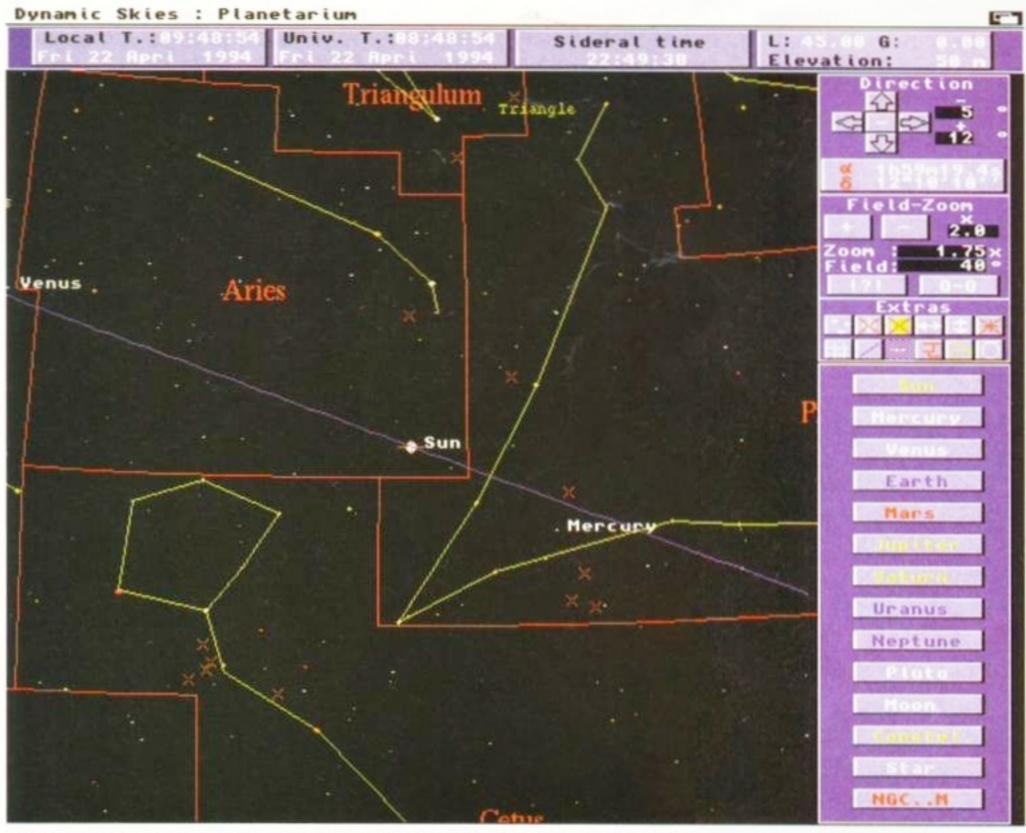
I'm not a great fan of platform games, but *Morton Strikes Back* (by Confused Pelican Software) could change my opinion. The storyline is simple: guide Morton – a funny-looking blob with legs – through 60 levels (full version) of platform–filled fun, with evil beasts blocking your path.

Morton seems to have left his megadeath laser at home, so you can only get rid of the baddies by jumping on them. Along the way, you have to gather together the stray penguins and guide them towards the exit. Why penguins? Your guess is as good as mine.



Filer is a useful directory utility program similar to Diskmaster and Directory Opus.





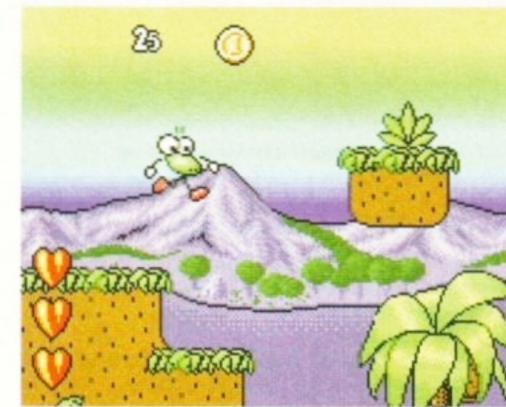
So if the sun is between Aries and Pisces at the point in time that I finish writing this review of *Dynamic Skies*, are we going to have sunny spells with sporadic showers later?

This game is certainly well programmed, with smooth scrolling and colourful backdrops. The collision detection is accurate and the graphics are imaginative. It also has some creative touches which really enhance the game, such as the way that Morton teeters on the edge of a platform. The score for jumping on a bad guy is doubled if you keep bouncing and squashing, and there are the usual bonuses which give extra points and power-ups. The only down side to the game is the

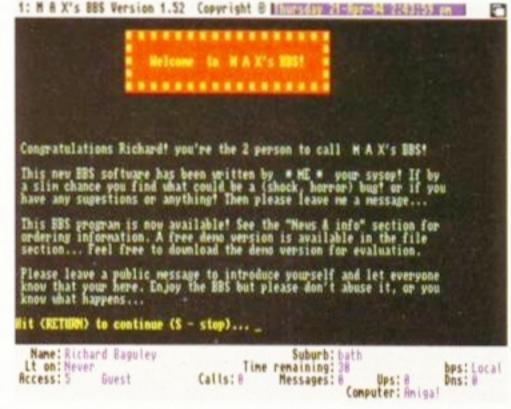
way you can jump off the top of the screen. It's not likely to challenge *Zool*, but *Morton Strikes Back* is well worth the asking price of £5 for the full version. It's available from Express PD.

Moving on swiftly from these platform japes, we get to MAXsBBS software (Cynostic, U2089). Many people think about starting their own BBS, but don't know where to begin. This disk is a good place, because it not only contains a demo version

Continued overleaf

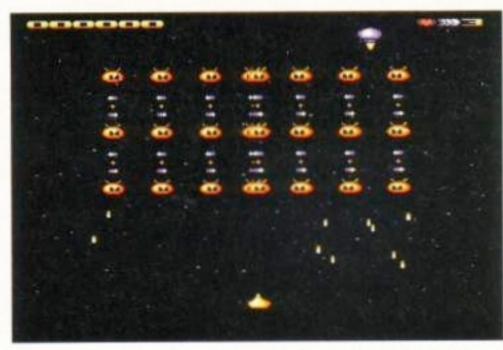


It's not as playable as James Pond, but Morton Strikes
Back is one of the best cheap platformers I've seen.



Fancy your own BBS? Try before you buy with MAXsBBS software, which can be run straight from the disk.





Why can't we live together with these Onslaught aliens in an atmosphere of peace and co-operation?

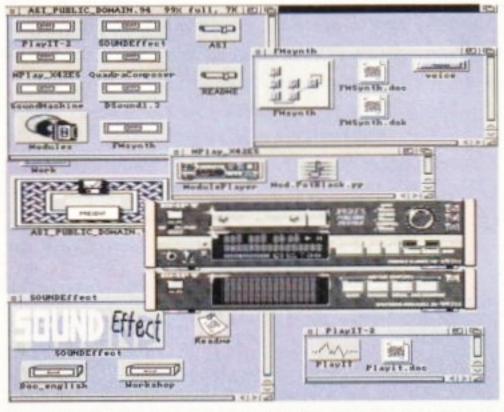
of the BBS software, but also includes all the configuration files to get it running. Set up one assign and you can run it straight from the disk. Because all the files are included, you can see exactly what you will have to do to set up your own BBS.

MAXsBBS not the most powerful BBS software, but all of the basics are there. The program can handle Fidonet mail, and is very configurable. You can set up your own message and file areas, as well as your own menus, so you can make your BBS completely different from the included example.

I've always liked looking out at the night skies and wondering what's out there. Now, with *Dynamic Skies* (Virus Free V1265), I can peruse the firmament without having to leave my desk or wait for the sun to go down. It's an astronomy program, similar to the commercial program *Distant Skies* (reviewed in *AF59*), in that it enables you to skulk around the night sky to see what's up there.

There's no more of that endless wondering which star is which, because everything is labelled, and you can easily see the constellations. You can even click on any star and find out about its size, luminosity, and so on. The database that comes with the program contains information on over 5,000 stellar objects, including stars, galaxies, nebula and other interstellar blobs.

Dynamic Skies takes this information and plots the sky as it appears to you at any time of the day or night. You can set the longitude and latitude to view from any part of the globe, and you can set the time (the program initially picks up the time



Fancy a CD player on your desktop but can't afford one? Why not try *Mplay* instead?



The animators say no gerbils or hamsters were harmed in the creation of this machine. Do you believe them?

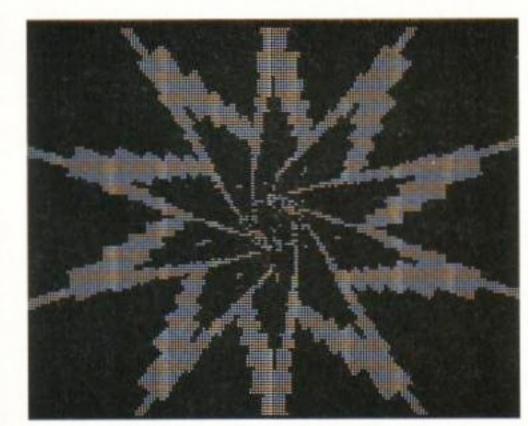
from the clock), and create an animation over a predefined period, so you can see how the planets move. There are a variety of more mathematical operations such as calculating the declination of a planet or distance between two planets, or calculating the phases of the moon and planets.

The program is not completely stable and crashed my Amiga a couple of times when I was changing the latitude and creating an animation. It's not as easy to use or as flexible as *Distant Skies*, but it is a lot cheaper.

Onwards, onwards, ever onwards, into... yes, another inspired-by-Space-Invaders-game. This one is Onslaught (Virus Free PD), and it's written by Carl Moss. It's fast and furious, as the screen fills with aliens trying to blast you into oblivion. Each wave of aliens behaves in a different way, so some zoom around the screen while others bounce around in groups. Between the levels you navigate your way through a meteor storm where the slightest touch will destroy your ships, so watch out.

Onslaught is polished, but it is pretty difficult. I didn't get further than the fourth wave (without cheating), but if you feel a need for some antialien violence, get your hands on this game. You need 1Mb of Chip RAM to run Onslaught.

Moving on to things of a more musical bent, we discover *Assassins Audio Magic Volume 6* (Roberta Smith, MUS709). This contains a selection of audio tools, including *FMSynth* (see PD Update, *AF55*); *PlayIt*, a good module player; and *MPlay*, a CD-player lookalike module player. Also included are *SoundEffect*, a sample processor which



No this isn't a Spirograph creation – you need VideoTracker to create patterns like this.

WHERE TO GET THE DISKS IN THIS ISSUE

EXPRESS PD, Magazine Business Centre, 11 Newarke St, Leicester LE1 555.

VIRUS FREE PD, 31 Faringdon Road, Swindon, Wiltshire. Tel: 0793 432176.

ROBERTA SMITH PD, 190 Falloden Way, Hampstead Garden Suburb, London NW11 6JE.

17 BIT SOFTWARE, 1st Floor offices, 2/8 Market St, Wakefield, West Yorkshire WF1 1DH. Tel: 0924 366982.

CYNOSTIC PD, Office 01, New Enterprise Centre, Little Heath Industrial Est, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. can add effects such as echo or chorus to your samples; *DSound*, a utility for playing samples off a hard disk, which means you can play long samples without having masses of memory; and *Quadra Composer*, a *SoundTracker*-type music program.

A couple of modules are also included on the disk, so you can load and chop them around to see how it's done. Overall, it's a useful collection.

If you've ever looked with envy at demos such as Nine Fingers or State Of The Art, you may want to check out VideoTracker (17 Bit, disk 3048). In many ways it is similar to Demo Maniac, a demo version of which is on this month's Coverdisk B. It enables you to load in a standard SoundTracker music module and add graphics, animations and other effects. Once you've added your graphics and effects, you can save them out as a standalone executable file (called a vidule) to give to your friends, or distribute it in the Public Domain.

Image manipulation tools are included, so you can spin images, colour cycle them or play animations. However, the real strength of this program lies in the way the effects modules are handled. These are separate programs, so you can load new ones as they are released, or even write your own. When you save out a vidule, they are included into the program. An additional disk, *The Video Tracker Developers' Kit*, contains source code for effects and guidelines for programming your own effects.

We've mentioned the Welcome To The Machine (17 Bit, disk 2782) animations before, but they are so amusing we had to write about them again just in case you missed them last time. The disk has three animations by Simon Hanrahan, aka Poob. Crazy Contraption is a surreal looking machine of no apparent purpose; Gerbil Feeder is a device designed to keep your gerbil fed while you're on holiday; and Bath Time At The Castle is an innovative heating system the heart of which is a helpful dragon. All the animations are short, but they loop, so you can follow the progress of the parts of the machines. Highly recommended.

- when we reviewed the *Unpleasant Ways To Die* animations disk in last month's PD Special, we believed it to be original material. However, we now know the images were copied from a book of the same name by Elan Fleisher (New English Library, £3.99, ISBN 0-450-53627-0). PD companies take note: without permission from the original creators, disks like this are a breach of copyright.
- The PD company featured in the Top 10 titles box on last month's PD Update, page 138, was Your Choice Software (061-881 8994) in Manchester, not Choice Software as stated.

TOP 10 GAMES AND UTILITIES

This month instead of the usual top 10 PD disks, font specialists Selectafont have supplied a top 10 of their best-selling fonts.

SELECTAFONT (0702 202835)

| 1 | Davy's Ribbons | Disk 9 |
|----|----------------|---------|
| 2 | Postcrypt | Disk 29 |
| 3 | Wedgie | Disk 58 |
| 4 | Starburst | Disk 35 |
| 5 | Salter | Disk 31 |
| 6 | Headhunter | Disk 17 |
| 7 | Blockbuster | Disk 67 |
| 8 | Powerliner | Disk 50 |
| 9 | Shrapnel | Disk 33 |
| 10 | Cracking fire | Disk 42 |

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PD SOFT 1 BRYANT AVENUE, SOUTHEND-ON-SEA, ESSEX, SS1 2YD



SPECTRUM EMULATOR

If you want to run your old spectrum

oftware on the Amiga then this is for

you. Remembyerthose's classic games rom yester year. As well as the normal version theres an 020 and 030 version,

Megalosound £34.99 Now the emulator needs software and with this sound sampler you can convert our game collection direct to disk.

< PC TASK v2.0 >

VISA

Even though the world computer market: still dominated by PC's the Amiga range of computers is excellent. You may wish to run some programs written for the PC bu do not want a new computer. Enter Po Task! It allows you to run the majority of PC Programs. Transfer of files, Runs 500 to 4000, Runs under KS v1.2 to v3.0, Upto 2 drives & hard drives, Supports CGA, EGA. VGA, Mouse, CDROM, and more. Demversion is available. Order Code Q V107

Linix based System which is call campatable

A + V719 FREECOPY v1.8 Removes

protected games copy protection so that

□ ^ + F691 PROFESSIONAL CMANUAL

v3.0 is the largest collection of utilities

documents & examples for C, It consists of

six manuals, with over 40 chapters (5)

^ + V759 TEXT ENGINE v4.1 Update

version of the Word processor with AZSPELL

1 ^ + V761 A-GENE v4.18 The mos

- + V782 FORMS Create, Edit, Draw

□ ^ + V783 PROGRAMMING TOOLBOX

Many programs to help in your develop-

A + V784 AREXX Contains a selection

of Arexx programs & finished examples (2)

1 ^ + V786 PASCAL Everything needed to

- + V787 PROGRAMMER TOOLS

GadTools to design your user interface to

^ + V790 ANIMATION UTLS Includes

CyroUtils for splitting, combining, and cre-ating animations from IFF picture files.

A + V791 DIRECTORY ULTS Highly rec

ommended programs which are design-ed to

onversion package that supports GiF, JPeo

Atari St PCX, Targa, TIFF, Harn-E and IFF Format

1 ^ + V799 ADVENCED UTILS SerNet &

ParNet, Connect 2 Amigas & share resou

ces via serial or Parallel ports. MyMenu

1! - V817 A500 PLUS EMULATOR AS

sounds will let v1.3 / v1.2 owners run Wi

v2:x+software WITH-OUT any need to pur

^ + V820 BB8BS v6.5 Baud Bandit bul

letin Board System Flures include up to 99

- + V821 SNOOPDOS v1.5 Monitor

Dos calls to see what library, devices, font

^ + V827 REPAIR-IT 2: NewZop v3.3,

Sector file editor. FIXDISK v1.2, Recover a

much as possible from a defective disk

-+ V841 MODULA-2 Contains

A + V842 SID v2.01 Sid can be used to

various operations, like file copieng, re

naming, deleting, Maving, Formatting ec

- + V858 MUSIC MAKERS Program

- + V865 IMAGE PROCESSORS Tools 1

- + V866 MANDEL EXPLORER collection

- + V875 SPACE The space disk helps you

A + V888 TRONI CAD v1.36 its the best

Computer Aided Design program with

^ + V899 BACK-IT UP Newly updated

disk which contains ABackup v4.03 /

Powerful backup utility that may be used

for Hard Drive backup and File Archiving.

also comtains Systato v3.23 + BackUp v1.4x

^ * V901 FIM v2.2 stands for Fast Intro

^ + V928THELITTLE OFFICE Has a Work

Processor and others programs to aid

1 + V936 LETTERS & BOILERPLATE

contains various letters for you to use as you

A + V942 SCREEN BLANKERS A disk

packed with screen blankers. Includes the

Twitight Zone blanker glong with 10 other

- + V943 LYAPUNOVIA v1.5 Mind

boggingly colourful program that makes

^ * V946 SYSTEMOPTIMIZER KCommo

dity gives you memory meters. REorg will

optimize hard, floppy disks for speed increase.

- + V948 INTUITION BASED BENCH-

MARKS v6.5 Contains all the popular BM

like Sieve Dhrystone Savage IMath & Mat

^ + V949 TESTS Contains all of the classic

speed tests and system checks we could find

ncludes CPU Speed and system diagnostic too

A + V951 PROTECTION is a collection of

utilities aimed to protect your data and autoboo

A + V952 x-BENCH v1.0 is the complet

solution to the replacement Workbench

loads of usefull utls LastHope, View, Virus

^ +K V958 CLUB LEAGUE is a utility that

will allow you to edit and keep track of your

^ * V962 SUPER KILLERS v5.1The later

Virus Killers like BootX, Virus Checker vo. 34 and

the new release of VirusZ II v1.0 should be able

^ * V976 WB 2.0 UTLs 6 Heres another

disk of WorkBench enhancement utilities

^ + V979 NCOMM v3.2k is a comm

unications program based on Comm v1.34

^ * V980 KICK v1.4 Will down grade you

A500+, A600 or AGA machines to run all the

old software that would NOT normaly work

A + V983 MEGA CHEATS v3.0c Nov

□ ^ + V988 ZIPBENCH v4.0 Anothe

Workbench replacement but contains ex-

cellent utilities like, powerpacker v2.2a

powerplayer, Systnio, VirusX, Archiver, b-Base, Bootintro, Degrader, Fist Aid Box (2)

^ + V994 THE MONEY PROGRAM v1.5

Features include upto a maxium of 60

→ + V1000 GRAPHPRO v1.0 Written with

Amos pro by David Jordan, Basically takes

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of Fractal Generating software utilities (2)

study, identify the Stars & celestial objects

modula-2 language on the Amiga.

file libraries, interface to extra devices.

are required if a program won't load

chase the Workbench v2.x chips.

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- + V794 GRINDER Complete

ment efforts (most C but some in basic).

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- + V1129 RED DRAWF TRIVIA The ulti-

tool for learning one of the 8 formats of cummur

□ ^ * VII34 TOOLMANAGER v2.1 includes

A * V1136 DISKSALV UTLs Copy_CA too

for making backup copies, ect. DiskMate A mult

drivedisk copier. Disk Salv2 is a disk structure. file

epair come salvage or undelete utl. HDClick, is

A ^ VII37 (AGA) UTLs 4 Test, BBlank

CheckAGA, CycletoMenu, Doublex, Force

/GA. GIF Datatype, PKLudge, PPShow,

A ^ VII38 (AGA) UTLs 5 Degrader, Pov-

Ray, AmigaToDouble, CardMemLast, Pal-ette Promotor, RomTagMem.

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wn fractals. Fastest mandel-brot producer

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to produce a simple menu system, this is it

A + V1147 EASYBENCH Contains a wide

selection of utilities which covers almost all

A + V1152 GOLDED v.94 A GUI Based

editor with lots of functions/options labout

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ate professional looking TV titles and cred-

its for you own videos. Well you can with

A + V1161 GOALKEEPER v1.0 Compute

soccer administration program. Create your own

A ^ VI164 (AGA) A1200 FIX DISK Cor

tains all what you would need for getting

disks to work on your new al200 computer

A + V1177 BETTERBENCH Yes its another

intresting Workbench utility disk packed 99%

☐ ^ + V1178 KICKSTART 3 EMULATOR 1

disk is a multi kickstart selection utility disk

You can select Kickstort 1.3 i34 005 Kickstort

machine las it isl Kickstart 3.0 (39.106) No

AGA support but a superior Workbench ect.

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ng about torgetting those important mee

work at your own leisure without worry-

gs, or names, address, tel Number's ect.

driven diary capable of storing all persion

vents and is the solution to those forgatter

^ + V1185 GENIE is a new genealogi

A + V1196 DESKTOP VIDEO is a disk with

A + V1200 MAGIC WORKBENCH IS

selection of icons or items to enhance your

^ + V1207 OCTASTUFF A new collection

of utilities come samples come modules to

use with the famous OctoMED programs

^ + V1208 OCTAROCK A selection of rock

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the latest version of the GCC environment, Thus

the compiler, driver, assembler, linker, header

files inline code generation of library calls. (3)

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GUI, Pascal and others (3)

filled with easy cross referencing

he Programming languages like. Ace

AmigaE, AmigaEdo, SBProlog, BCPL4AMI,

A + V1219 THE AREXX GUIDE Full Amigo

Guide document to teach you Arexa!! Tip

A * V1220 TERMINUS Modern/Termi

nal program. Full featured scripts/screen

^ ^ V1221 (AGA) BLANKER BlitzBlanker

for WB v3 x only it has 14 different blankers

all ready to show off your AGA machine!

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cial printer Preferences editor and driver

system for all Panasonic 9 & 24 pin printers

rinter Preferences editor and driver system

A + V1226 AMINATION & PAINT Direct

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" * V1227 GADTOOLs Contains a col

lection of sharded libraries intended to pro-

excellent helping of new utilities for WorkBench

2.0 and 3.0 Enforcer, A tool to monitor illegal

editor. AssignPrefs, PickStartUp, Allows you to

select a startup-sequence of your liking. Sticklt, A

amputer replacement for the all Past-It note.

^ V1229 (AGA) MAIN ACTOR v1.16

emory access. Assign Manager, A new pre

V1228 WB 3.0 UTLs 7 Contains another

vide programmers with new GadTools

a slideshow and cel animation. FrePaint

+ V1223 CANON STUDIO Specio

overscan, all the popular protocols

naking and editing your very own video master

database which will keep track of info.

+ VI184 AMIGA DIARY Is a mouse

wether for a hardsk or a flappy disk

he best utilities on the Amiga (2)

this. It has outstanding abilities

nodes, make animations, even design your

1 ^ + VII40 FOOTBALL FORECAST

a hard drive menu and workbench tool

the ability to add menus to your Tools menu

add WB icons or Windows. (2)

Rend24. ViewTek and Verlauf

□ ^^ T12RELICS OF DELDRONEYE Total Disks:4 [Price £6.99+£1 P&P]

pire. It was your devine task to recover the fable treasures of Deldronos. Breaking through the wall an ancient ervot, you discover one of the Di-Stone rtunately, you were bit over the head and left to the convicted of the theft. As you could not neve e location of the treasure, your sentence was that o ture. The real criminals were free to preparing stage e life of the king, but of the Empire itself. AGA Onl

A + V1236 INVOICE PRINTER Will print rivoices onto your letterheads. Much sort after. Ideally suited to a small business. A + V1237 SUPERSPELL A global spellin thecker for use in any program you are typing under. Has a 9,000 ward dictionary which you

unctions include load disk df0, df1, load file kicksum, makekick, save file ect. 1 ^ + V1239 SKICK PRO v3.43 is the se algrement for Kickit, ZKick, and LKick ect in ended for use on KS2.0 machines & its task is t soft-kick any other version of kickstart into RAM 1 ^ + V1240 SHOWSTD v1.2 is a tool that can be used to show the area covered by a particular STD code on a map on the UK ing Toasters, is a screen/mouse blanker ^ * V1241 THE PD OFFICE is a little col

1 4 V1242 RE-ORG v3.11 is a fas shareware disk optimizer for AmigaDOS 1 + V1243 IMAGE 2.0 OBJECTS VO urnes 4 to 7 packed to bursting point of Irrage A + V1247 TEXTURE MAPS in 320x20 JPEG format for use with any rendering programs, textures like Organic, Miscella

A + V1250 SOLDERING Contains may useful tools for drawing good quality circu diagrams, and also vero-board strip board pollox for astronomy that has, for an ult mate goal, to answer with speed any gues tion that may arise on celestial objects. Yo guide through the basics of this exceller nusic program, From OctoMED 3 xupword

A + V1270 PRO BINGO Brings all of the the ISO-9660 standard and will mount th

ay to keep names, addresses, Phon numbers, ect & then print them out. - + V1279 PRINT-A-CARD Wortfooring

oupon based on sequence prediction. + VI282 FOOTYVI.4 is a dedicated for ball database, sit back in your favourite chi with your mouse-mat on your lap and keep tract of whats happening in the tootball league.

A + V1284 PC FORM LETTERS Just lo m into your fave WP and insert your own

ecompression is done automatically by the

complete modular screen blanker packaa designed with DOS 2.04 or better in Mind 14 Different Blankers and a message system A + V1314 HP4L v2.01 Contains reinter driver for the HP LaserJet 4I, printer J ^ ^ V1318 (AGA) SWERVE is a selection f commercal quility images for use as backgrap ill are in maximum oversan for best results. A + V1319 MAXIFUFE Enoble you to take omplete control over your finances. SPEND-WIZE is a tool to assist you in maximis our return from your day to day outo

anguage editor or Word processor on the igg with over 100 features. By M Redo A + V1326 C: COMMANDS & LIBRARIES over 100 commands that lie within a c directory and over 20 librarys will spice up your disks.

1 4 + VI238 KICKSTART SAVER v2.0

ection of wonderful utilities like EdWord

disk filing system for the Amiga, it support drive as a das device (e.g CDO.) You can even access files and directories on a CD

pic into a knitting pattern. VIDEOMAXE 04.20, A video database that satisfies a needs of a private video user, full OS 2.14 " + V1275 RUSHv1.0 is a directory utilit for AmigaDO5 2.0 or greater. It allows file and directories to be manipulated quickly and easily. **PEOPLETREE** What it offers you is the ability to compile a fair-sized famil

tree for your self. AMBUSH can be of used to ^ * V1277 STAR STUDIO Printer drive software for controlling any printer printer " + V1278 MAIL-O-DEX An exceller

a business card or any other type of can than this is the software for you A + V1280 DIVIDEND WINNER & PERM CHECK is a pools prediction aid which wi dvise which numbers to enter on you

also contains the program called sid for asy installation of the Printer Drivers

- + VI296 EAGLE PLAYER VI.41 sermanys best selling module player strok onstruction package which supports over 80 music makers and trackers, (2) A * V1302 XFH-HANDLER V1.34 Is a DO

handler which uses xpkrnaster library to prove ransparent access to compressed files in given directory or partition. All compression andler when files are read or writte

A + VI303 SCALA BACKGROUNDS Actures in 736x580 16 colour format for use with The program Scala Theres about 1 pics in total and are very sharp indead. (2) A + VI305 VIRUS WORKSHOP v3.2 WG produced to get rid of all the viruses han O ^ * VI307 NETWORKING Conta utilities to help aid in Networking your Amiga like AmigaNOS, DNet, Par/SerNet, also contain

various update devices and libs. (3) A * VI310 GUIDEs Contains AGAGuid which gives full Amiga Guide informatio and Libs Guide is a Guide to the Amig Libraries, Where to find almost every Librar A + VI311 CD ROM Contains selection of CD Rom related utilities like CD Player v2.2, PlayCDDA and ReadDCTV. A. VI313 GBLANKER V2.7 IS

A + VI321 EDWORD PRO v4.1 Te

riteConverter, ColourConvert PPShow Viewte ^ V1335 (AGA) LIBRARY & DATATYPES ins 47 Librarys for workbench 3 computers of one right upto date and just waiting for you special commands to allow existing files to b transferred from a BBC with DFS by means of a

A + V1348 VIC20 EMULATOR With nev he Arniga contains the basic rom, CHAR rom m and two versions vic-00 & vic-020 - + V1354 FIVE STAR V1.0 a power!

prediction tool for LOTTO, POOLS, SWEEP, DIGI " V1355 MPMASTER v1.2 Auseful MID agram that enables to transmit/receiv rples via MIOI between the Amiga and an A + V1356 NOERRORS v1.3 Main function to hide physical disk errors from flooply disks ind hard disks, so these disks can then be used

you to obtain the superb prints that you have 1 ^ + V1358 10 OUT OF 10 MATHS is suite of six educational games designed to hel hildren and to arios with 36 specific topics.

A + VI359 EPUvI.4Doubleyourharddri pacity by installing EPU. After installing EPU is ry Device (HardDisk, Floppy, Rad etc) every fil hich will be written to the device will b impressed and when any compressed file is

1 ^ * V1360 WORKBENCH 2.0 TUTORIAL you are new to the Amiga - WELCOME: There a lot more options open to you than just playing mes. Breaks down the makings of Workbench nake them more understandable to the use 1 ^ ^ V1361 (AGA) 16-COLOUR ICONS eseicons were beautifully drawn by Roge AcVey, and I must add that the originals are

st on all chips, all the parts and even the disk graphical information. Every Artiga owne ld have a copy! Find out what is wrong with Amiga before going to the repairers to ge

V1363 ROLE PLAYERS ASSISTANT AD&D play-time dungeon master's assistar and CHARGEN GUIDE v1.0

A + V1364 MAND2000D is meant to be g less than the finest Mandelbro tion program available on any computer mbines speed, power and simplicity with wunique features, all designed to make it eas or you to discover uncharted regions of the Mandelbrat and Julia sets. Lets you make Mandelbrot Zoom movies

GAME DISKS

1! - 1073 TETRIS ORIGINALTHIS is the closest game to the original tetris 1 4 + 1420 DTRIS if you want at or 2 playe

- ^ + 1749 SCRAMBLE Original that all 1977 POM POM GUNNER Shoo

WW2 air planes in this Op. Wolf game 2018 JETMAN Spectrum classic on ning with all the original sounds

2022 SEA LANCE The first Silent Serv 2054 ATIC ATAC A rendition of the

+ 2164 DUNGEON ON NADROJ This is

+ 2220 STRATEGIC GAMES Eterno - + 2221 MIND GAMES 21 of the bes

^ + 2272 BLACK JACK LAB Play all the 1 ^ + 2278 CARD SHARP Very well pre-

+ 2280 DIPLOMACY 2Mb Class ne loosely based on World Wa + 2411 TOTAL WAR Strotegy world con

+ 2432 GOLDEN OLDIES Galag ialaxian, Space invaders, Asteriods, Batty +> 2447 COINDROP Fruit Machine

- 2448 CRAZY SUE Another first rate +> 2480 FRUIT MACHINE 2 As negros

+ 2491 LEGEND OF LOTHIAN Excel + 2498 AMOS CRICKET Excellent or ade cricket simulator with nice graphic 2614 TETREN is a 1 or 2 player Tetris

+ 2617 GOLDEN OLDIES 2: Crook, is or 2 player Fragger. BiPlanes is 1 of the most additive games we've played here rail-Blazer, as the C64 Classic, Scamble A + 2620 DR MARIO You must move

- + 2621 ETERNAL ROME Stort the Ro man Empire from 32BC. Build fleets, armie & attack other counties and armier 1 * + 2622 DONKEY KONG Platfo

1 ^ + 2676 MORIA v5.5 Loads of new vatures, better graphics, larger, graphics ungeons, screen updates, overview of ngon's map, more monsters ect. 1 ^ + 2724 NEIGHBOURS is the bes

raphical adventure game to date (2) 1! + 2738 AIR TRAFFIC CONTROL Try ! 1 + 2802 CARD-O-RAMA Seg heven Crib Klandike Black-jack Spades, Street A + 2825 ALL ROUNDER A Cricket simu

A + 2854 SPACE INVAIDERS II A revise

A + 2864 FIGHTING WARRIORS A ko rate combat fighting contest game

1 ^ + 2932 NUMERIX Enjoy puzzles ther this is a must. You have a scrabble board & must place fetris blocks to get points. + 2987 BOMB JACKY A conversion of 2988 BALDERS GROVE its here Boul der dash with a selection of levels that work uffy on Workhench 2, or high

+ 3039 ASTEROIDS II v0.85 The bes on of Asteroids i have ever seen, if you ike Asteroids then this is for you ^ ^ 3040 TETRIS (AGA) If you like tetris.

+ 3075 18 HOLE GOLF Fully selectable peed and power functions com-bined with irpub graphics and sound (2) + 3162 SON OF BLAGGER Classic C64

tform conversion Can you remember it - + 3214 UNIV CONQ A strategy game where 2 human players battle for control of the is the game and this is the game for you, it 1 ^ + 3235 ALIEN BASH is set inside

+ 3265 WIBBLE WORLD GIGGY W

headcoach you will have to call the playsthat vo hink will be most effective to the game. You w hen be able to see the action, followed by a brei ummary of what you have just seen. (2) - + 3286 AIR HOCKEY a game based nead view driving game like HofRod. Theres

and Operation Stealth. A brilliant game (2) cross between OBert and Black It with makes

An excellent stratergy war game in which "+K 3428 CLASSIC TERIS GAMES For all you out there with a fetish for Tetris game " + 3434 MR MEN OLYMPICS Heres

ts just another excellent AGA very large phics space invaider type game. (2)

1 ^ ^ 3454 (AGA) KLODIKE (3) Fancy

game with 32 colour graphics, over 500

- + 3620 ORC ATTACK is a simple je colourful and well designed Orc killing game A + 3715 GORE Its here programmed to the Amiga based on the C64 Original version. Shoot down the alien invaid 1 ^ + 3761 COLONAL CONQUEST Is #

best stratergy world conquest and doninatio ☐ ^ + 3766 SUPER SMASHING TETRIS Another tetris variant game with excellen

1 + 3803 A DAY AT THE RACES IS game in which you can run a horse racing table with a selection of strategy options Simple to a footman management game but based on running a stable of horses. O ^ ^ 3804 (AGA) MEGABALL An AGA version of the best Amiga bat & bat game ever

NewBats, bricks, graphics, sounds and mos 1 ^ + 3805 WAYNES WORLD PONG! basic game of PONG but with a power packed selection of sayings from the film? 1 ^ + 3806 MATRIX BLASTER Tron line

games for 1-2 players with stunning sound effects and game play. + 3808 QUACKERS! nyaided Duck World a you must save Santa 8

A + 3814 HIGH OCTANE! is a stunner of game in the vain of HOTROO! You get a erhead view of the race course and a selection 1 ^ ^ 3819 (AGA) TO THE DEATH Th

ame just has to be purchased because it 1 ^ + 3820 DOG FIGHT is a contunation game BiPlane better graphics, sounds, ext creen sizes, split screen play, bombs. + 3830 UTG If you have played the Ulim ries or Legend of Lothian or simular game, you

A + ASS121 BRAINBOW A board game which will tax your brains for hours. Rather like a version of the pile-up Scrabble. 1 ^ + ASS127 SHANGHAI 93' A brond nen

1 ^ + ASS138 SCORCHED TANKS This is enhanced version of Artillerus II with over 2: erent weapons and upto 4 players. A + ASS153 EXIT 13 A puzzle game in whice

When you place identical tiles side by side A + ASS155 MEGABLOCK This is a Tetri clone with a lot of skill levels added feature like the odd cherry bomb floating down to take out any unwanted or badly positions blocks. 1-2 player. **DIGGER** An arcade puz de game which tries to irritate the classic arcade game of ten years ago "Dig Dug" ou must dig tunnels, kill aliens twith a bicycle

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A + ASS158 VCHESS II Stunning new ches game. SCRABBLE, is a conversion of the board

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TOP GAMES

• 27 ASSASSINS 100 'BLOAD RUNNER' a good game "PATIENCE" the old card game MONACO" an excellent version of a classic old arcade racer.

 421 ASSASSINS 70
 TETRIS PRO* probably the best Tetris game around for the Amiga "WANGLE" strange game "TETRIS DIGITAL" a two player game.

"BOULDERDASH COLLECTION" a good set of Boulderdash games 'PROJECT BUZZBAR' a very good addictive shooter - asteroids style "XENON 3" well almost anyway

 852 ASSASSINS 51 "LAMERS" a shooter of sorts "FIGHTING WARRIORS" a very good playable "SF2" rip off 'SHAPES' a Tetris game

 1043 TOTAL WAR A brilliantly addictive computer version of the Risk board game. Up to six people can play each other or

 1046 ASSASSINS 64 "OBLIVION" probably the best Defender type game on the Amiga BREAKOUT CONSTRUCTION KIT* make your own games 'DRIVE WARS'

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Amiga-ised. Very nostalgic and unbelievably playable.

• 1804 ASSASSINS 102 'FRUIT SALAD" a lovely puzzling platform game oozing playability 'REBOUND' a preety good Pong

"PAC SIM" an OK Pacman game 1815 ASSASSINS 76 "GNU CHESS" an excellent against the clock chess game with a very clearly defined board and pieces "CUBUS" a very tough challenging 3D

Tetris game. Professional stuff • 2243 ASSASSINS 1 TANX' very funny tank combat "ROLLERPEDE" a good little blast

"AMIGOIDS" the best Asteroids? "CAVERUNNER" a Boulderdash "AVATRIS" THREE player Tetris

 2692 GP MANAGER 93 A very technical and detailed

• 2755 ASSASSINS 74 CRAZY PIPE 2" a brilliant Pipe Mania type game, very addictive "BOMB JACKY" very playable "CHUTE" two player parachute fun

 2759 ASSASSINS 79 "GRAV ATTACK" nerve racking "VEKTOR STORM" a fantastic arcade blast, full of action

"ATOMS" a good multi-player 27.96 ASSASSINS 16

"PACMAN" great version for kids "WASTELANDS" good 3D game "DELEMMA" excellent puzzler!

SERIOUS

 9 CATALOGUE 3 This is a fully working demo version of a very nice and easy to

use database program. 45 NCOMM 3 (not 500) This has got to be the best modem. communications program around. So if you've got a modem then get

this and get talking to other users.

• 442 POOLS TOOLS 2 A lovely little program that's designed to help you play the Pools.

 1027 CREATE ADVENTURES A pretty good little adventure game creating program. Easy-ish to use
• 1042 EASYCALC
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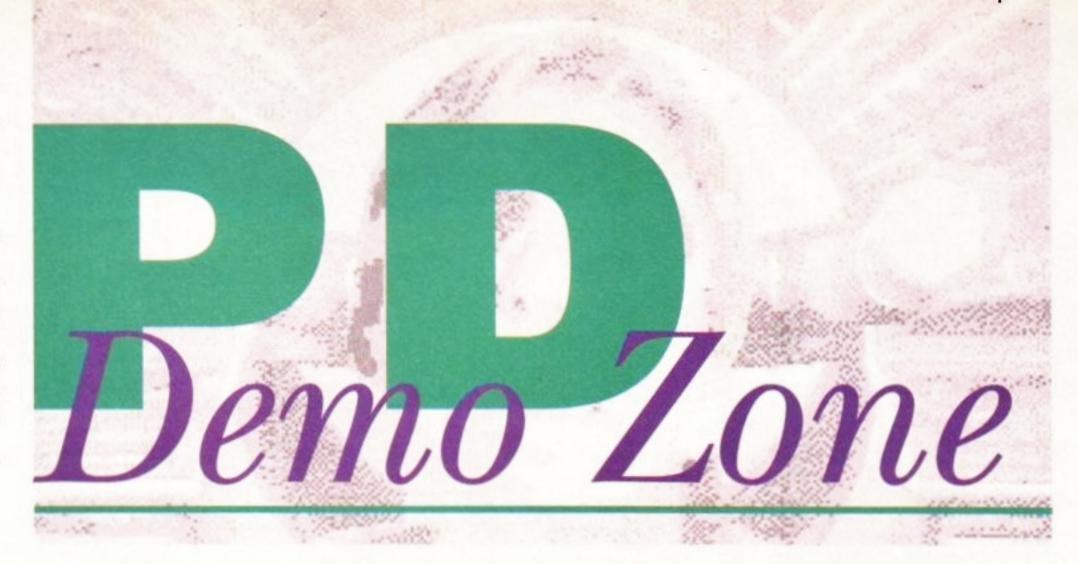
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PD demos come in all shapes, sizes and subjects, from sexuality to space, and torture to tunnels.

Steve Bradley takes his monthly trip to demo city gaining yet another crucial learning experience.



hen did the word 'zone' become so popular? Zones are everywhere these days. Like cones. Cone zones: on a motorway near you. Anyway, this is Demo Zone and not a hold-up in sight, so without much ado about nothing further, enter Talent whose offering goes by the name of *QED 2* (AGA, Cynostic D0272).



Talent's leader is being tortured to make him spill the beans on their forthcoming releases in QED 2.

Brief plot scenario: leader of Talent kidnapped. Why? Good question. All right, they want to know about Talent's forthcoming demos and, er, that's it. Scenes of astronaut-type folk struggling manfully in their chairs abound before we're asked the eternal question: 'Are you tired of plot tunnels?' Yes we are.

It's been around for a while, but now that Kurt's shuffled off, it's time for the review. However, *Smells Like Chanel No 5* (AGA, Cynostic D0254) has nothing to do with Nirvana. And perfume doesn't figure too highly either. Never mind, eh? Unfortunately, it's a rather tired mix of effects and a dull synth track. Uninspiring.

How the beat thumps on the *Trip To Deep Base* (Telescan). The track is quite hardcore and many of the visuals are original – the creative use of white space (blank screens) works well at times. For fans of the genre, it's worthy of a glance.

Paul Weller once suggested: 'You don't have to just sit back and relax'. But To See The Aura



Brainstate In A Box's veritable fusion of colour is enough to send the brain into a state of madness.

(Yorvik PD ED0003) you do. As departures from the mainstream demo scene go, this is on a slow boat to Hong Kong. And as befitting such a title there is no sound, simply instructions to feel the human aura. Anyway, it's all about tingling sensations so if you fancy a bit of ESP, change your name to Yuri. This totally text-based demo may not tingle many and my brief experiments proved fruitless. But you never know.

Brainstate In A Box (AGA, Freestyle PD) has no such extra-sensory perceptive aims. Brightly coloured fractal landscapes flow to a JM Jarre-ian blip beat and yes, I can definitely feel something. Damn, hot tea down my trousers! Although it's rather samey throughout, the team (well, me) quite happily enjoyed repeated sittings post-lunchtime pinball.

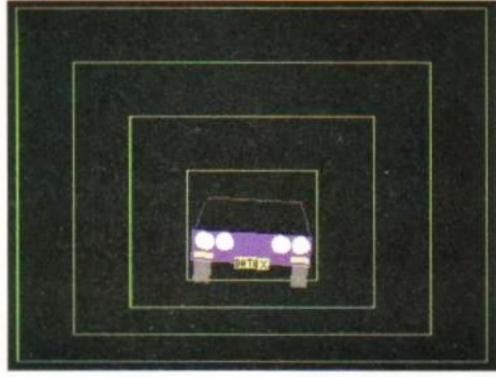
Imagine a Seventies Spangle sweets typefacedscreen and a looping track of the fantabulous former number one single *Doop*, and you've got a demo called *Doop* (Choice Software M138).

Sequential (AGA, Cynostic D0268) is not a word one would use to describe many demos. Nor this. Bubbles, funky bass, zebra crossing roller-coasters, naked woman (obligatory drawn version, stood in coy position), magnets and cubes. Put that lot in sequence. Visually it's rather good, although the track is dreadful.

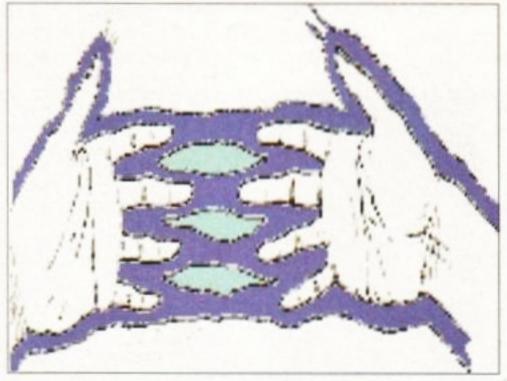
On a lighter note, well, airborne in fact, comes *Flying Lessons* (17 Bit 3026). Reminiscent of the splendid cartoon *Rhubarb*, our hero (masquerading as a blue blob) attempts to fly, beneath the paternal gaze of a shade-wearing sun. It's simple, silent and vaguely amusing.



Life is one long tunnel in Smells Like Chanel No. 5. Sadly, some folk don't make it through to the other side.



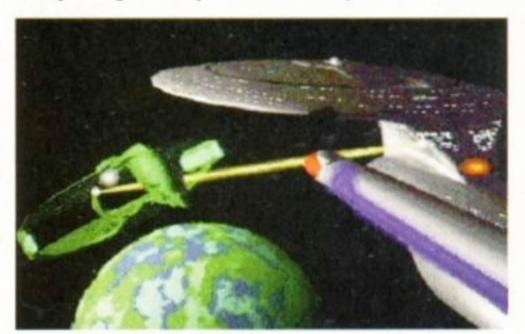
Whether this stylish blue motor ever makes the *Trip To*Deep Base, we are not told.



Put your palms close together and feel the heat in the unusual offering To See The Aura.



Friday At Eight: funny, a lot of folk in pubs look like this come Friday at eight o'clock.



Artist Mark Platts produces some decent fare for all you Amiga-owning Trekkies with Holdeck three and four.

Wahey. Fractal landscapes and loud guitar riff announce the arrival of *We Shave Ass* (Telescan). Not that it's a literal description of the content, for scenes depicting mule-shaving in demos were banned by the Save Our Ass Society in Brussels only last week. Add a texture-mapped globe and a dotscape and you've got one happy donkey.

Amigo's Ultimate Dance Mix '93 (Cynostic S0221) is horses for courses, however. Various pop tunes are present (It's My Life and the one where the woman implores: 'Everybody dance now!') but as Peter O'Sullevan would say, it falls at the first hurdle. Aficionados only.

Suspicion is immediately aroused when the opening screen says: 'Loading a Feeble Production'. Fortunately, this demo from Anathema is called *A Feeble Time* (Cynostic D0266)



Once you get all the boxes moving, it looks like the main arena at the Edinburgh Military Tattoo.



Forgive me, but if this We Shave Ass vignette isn't ET in a cube then my name isn't Richard Baguley.

and as it happens, it's not half bad, particularly the ray-traced tunnels. The track is dull and there is the odd unnecessary innuendo thrown in. Shame.

Odd title, odd demo. *Trancexual* (Cynostic D0594) has a simple, repetitive, track similar in parts to *Waiting For A Train* by Flash And The Pan (what?). On screen are a number of boxed meaningful observations such as 'Space is endless' and 'Spiritually reborn'. Yes, well... the best thing is, you can grab them with the mouse and chuck them all over the screen making pretty patterns in the process. Far out.

The final frontier is far out – in space somewhere. And Trekkies will be pleased to note the release of *Holodeck* versions three and four (Cynostic). It's more of the same really – HAM slides of *Star Trek* spaceships although there are a few drawings of the crew. The quality is pretty good and if you liked the others, you will no doubt enjoy these.

It's one of the best times of the week and the title of a really frantic demo. Friday At Eight



Big Time Sensuality treats your senses to both a fabulous tune and a visual feast.



The unfortunately named A Feeble Time is blessed with some tremendous ray-traced tunnels.

(Yorvik PD) opens with a stonking beat before lapsing into a kind of Seventies funk with itchy and scratchy guitar. Add a few cubes, tunnels and flashing catchy comments and you've got a demo well worth watching. Not at eight o'clock on Friday night, though.

As pop tunes go, this Bjork's *Big Time* Sensuality is one of the finest, and now it has spawned a demo of the same name (AGA, Cynostic D0244). Fractal landscapes abound and the title screen and AGA plasma are particularly fab. The sound drops off for a second in a couple of places but it's mostly enjoyable fare.

TOP 10 DEMOS

Every month, we peruse the best-seller lists of a prominent PD company. This month, it's the turn of:

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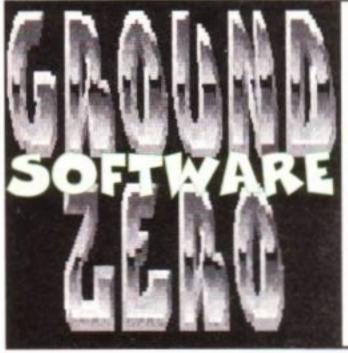
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A169 SUICIDE MAN 2 - Sucide man decides to fall off a rocky cliff (animation). Avoid is easily offended. *REQUIRES 1.5 MEG* \$107 THE HISTORY OF AMY - The career history of Amy the squirrel way back in the 1939's to the the present day.

U379 LANDSCAPE V1.0 - Garden landscape CAD package. Creates 3D renders from 2D designs.

G311 D SOLVE CROSSWORD - Crossword puzzle game. G312 SOLAR LORDS - 2 to 4 player space strategy game. Each player must attept to rule the universe. Gamrs idea influenced by commercial board and computer strategy war games. NOT A500* D186 CRASH TEST - Superb AGA demo by veteran coders, Crypto Burners, *A1200 ONLY*

D187 SEQUENITAL - Wow a vector Rollercoster. *A1200 ONLY-

D188-189 (2 DISKS) BIG TIME SENSUALITY - Besides other incredible routines, FULL MOTION VIDEO. *A1200 ONLY* U380 MAP STATION V1.02 - Game level map designer/editor for Assembly programmers.

U381 PROFESSIONAL BINGO - Computerised Bingo programme. Even prints Bingo cards.

E76 AMIGA FRENCH WORD TESTER VI.1 - Title speaks for U311 EASY CALC PLUS - Commercial quality

U383 SPECTRUM EMULATOR 1.7 - Latest version of this Spectrum 48k emulator. Software is loaded via sound sampler. U384 VIEWTEK 2.1 - Superb picture and animation viewer. Supports AGA graphics. *NOT A500*

\$108-\$109 (2 DISKS) FIT CHIX - Gorgeous models in

swimsuits. *A1200 ONLY* S112-S113 (2 DISKS) FIT CHIX 2 - More babes *A1200 ONLY* S114 BODY SHOP III - Scantly clad super models. *A1200

\$115-\$116 (2 DISKS) BODY SHOP IV - More of the same.

A1200 ONLY S117-S118 (2 DISKS) BODY SHOP V - You guessed it. *A1200 ONLY*

A170-A171 (2 DISKS) DANGEROUS SPORTS CLUB - A sky diving prank goes terribly wrong. *REQUIRES 2 MEGABYTES* A172 TRANSYLFAILURE - Count Dracula hasn't quite got the knack of it yet. Funny animation. *REQUIRES 2 MEGABYTES* A173-A174 (2 DISKS) CD32 REVIEW - The CD32 meets Star Trek in the 25th century. Very clever. •REQUIRES 2

MEGABYTES. D190 QED - A talented effort from the coding group, TALENT. A worthy AGA demo. *A1200 ONLY*

U385 ANATOMY CLIP ART 1 - Large IFF bitmap clip art mages of skeletons etc.

U386 WILDLIFE CLIP ART 1 - Mixed wildlife Hi-Res IFF clip art pictures

U387 WILDLIFE CLIP ART 2 - Second disk in the series. U388 WILDLIFE CLIP ART 3 - Third and last of this

U389 ANATOMY CLIP ART 2 - Hands and skulls. G312-G313 (2 DISKS) MR MEN OLYMPICS - Superb 1 to 8 player decathlon game. Very professionally written

\$120 UNPLEASANT WAYS TO DIE SLIDESHOW - Amusing and sick look into various fatal everyday situations. Worth a laugh E77-E78 (2 DISKS) TOME OF MYTHS - All about Greek Mythology. *REQUIRES 1.5 MEGABYTES*

E79 THE MYSTERIES OF RUNES - Reference guide to the meanings of the different rune stone symbols. «NOT A1200»

G314 A DAY AT THE RACES - Horse racing management game. Run your own stable. Buy/sell horses, train them up and race them etc... *NOT A500*

M143 MOTTV-8 - House and Rave music tracks.

G315 ONSLAUGHT V1.0 - Good looking tough shoot-em-up. *NOT A500+



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E16 CHESS TUTOR - Four programs that take you brough the rules to taking part in historic matches. E52 COLOUR THE ALPHABET 2 - Learning game for infants. Includes Digitised speech. V.good. E41 FRACTIONS - Teaches and tests you on (+)ing, (-)ing, (x)ing, and (/)ing with fractions.

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ntegrated into an adventure game. E60 CODE MUNGUS - Highway Code testing program. Strange name but a brilliant bit of

E69 ASTRO 22 - Astrology plotter programme for

E58 DESERT STORM HYPERBOOK - How the war was won. Includes maps

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E24 TOTAL CONCEPTS - DINOSAURS - All about prehistoric Earth. E65-66 (2 DISKS) TARRO MASTER - Tarro card

tutor and prediction software. E3 WEATHERMAN - Weather Forcaster. E18 BIORHYMS CALCULATOR - Displays your

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E54 STIRLING ENGINE - Cross section animations of the Stirling engine E56-57 (2 DISKS) AMERICAN FOOTBALL comprehensive illustrated rule book of this sport. E68 KIDS DISK 2 - Maths Maze, Beat Sheets.

Shape sorter. Edutainment games. 1312 BUDBASE V1.2 - Simple to use database. preadsheet. Loads of features. -NOT A500-J324 JcGRAPH 1.0 - Ex-commercial graph plotter. 25 different type of graphs, even 3D ones. U310 PAY ADVICE DATABASE v3.00 - Payslip database. Shareware demo version. U303 INVENTORY v2 - Stock control, staff wages

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209 FORM REALLY UNLIMITED - Invoice and rm designer with print facility. U166 BIZCALC - Loan and mortgage calculator.

U304 TEXT ENGINE v4.1 - The best shareware word processor. With intergrated spell checker.

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U220 - Animals, People, Places. U218 - Cartoons, Construction, Religion, School,

U100 - Teddy bears. U96 - Easter, Christmas, Jungle Animals, Famous

U95 - Zodiac signs, Computers, Symbols, Logos,

U251 - Babies, Furniture, Space, Skeletons, U233 - Christmas

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U226 - Wild west, Crowds of people, Frames, Signs U225 - Fancy letters, Cars, Cute Animals. U222 - Music, Silhouettes, Symbols, Teddy bears. J356-365 (10 DISKS) MILITARY CLIP ART.

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U260 ST-88 - As above. U261 ST-89 - As above.

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J216 BON APPETIT V1.3 - Recipe database J165 GURU - Tells you what those errors are. J151 P-SUITE - Create impressive text files with ustratons, animations and sounds. All you need to to all this is in this package.

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style front ends for your Amos programmes. Saves

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language. DEMOS *A1200 ONLY * D153 RETINA - Energetic rave music with flashy effects. Turn down the lights!! D184 FULL MOON - You can't get much better than

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158 NOP AGA - Little demo from Hungary. D161 FAIRLIGHT 242 - Twenty nine megabytes of graphics compressed onto one disk. Incredible. Cool rave demo. *A500+ & A600 USERS REQUIRE

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S73 GULF WAR SLIDESHOW - What hardware vas used in the conflict 667 NAGEL SLIDE - Hand drawn pictures of fuctively dressed ladies. 47 HAM PICTURES 1 - Models in swim suits.

48 HAM PICTURES 2 - More of the same. 98 SATURNE 93 - Weil drawn artwork, from noa art to fantasy art. 91 MANGA WORLD - Needs no introductions,

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194 NIGEL MANSELL AGA - Nige in his Formula ne racing days with Williams. *A1200 ONLY* 893 REVELATIONS - One of the best hand drawn ideshows ever. Amazing attention to detail. \$102-S105 (4 DISKS) WORLD OF MANGA - The best Manga slideshow around. Great graphics and nusic. A1200 ONLY

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G183 BOUNCE & BLAST - Very playable platform blasting game. Brilliant cartoon sprites. 3200 FIGHTING WARRIORS - 1 or 2 player martial arts combat game. Large well animated characters with numerous moves including a couple of special

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G224 OBLIVION - Fast moving defender clone. G226 MORIA V5.4 - Massive RPG, Dungeons and a town to explore. Hours of play. G229 GIGER TETRIS - Tetris with 256 colours.

*A1200 ONLY G290-291 (2 DISKS) GEORG GLAXO - Amazing platform game from Germany, G237 BACKGAMMON - Computer version of this

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LATEST EDITIONS G316 POLYMORF - Neat puzzle game. G317 HYPERDRIVE - The fastest Amiga

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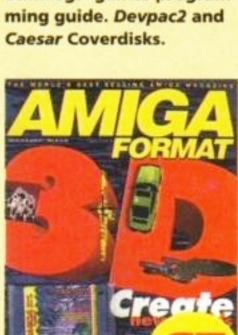


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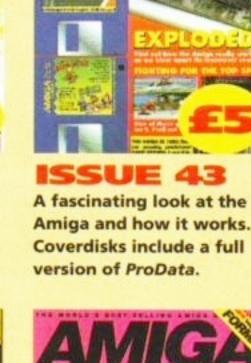
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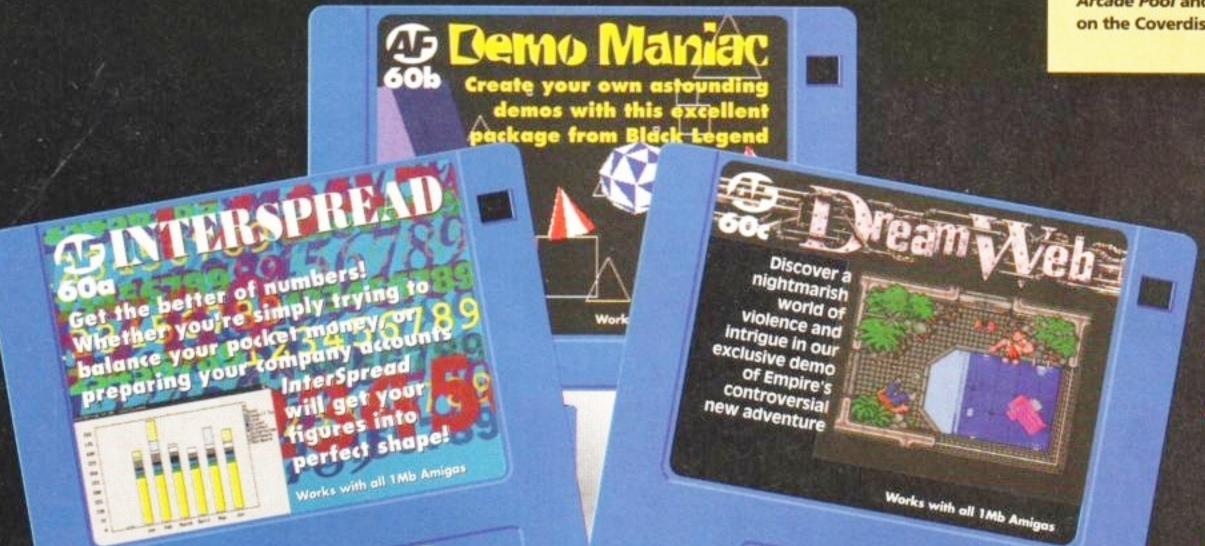
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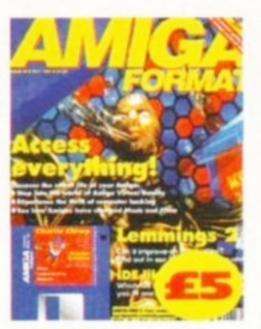
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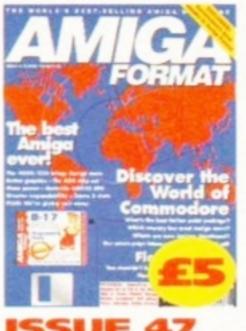
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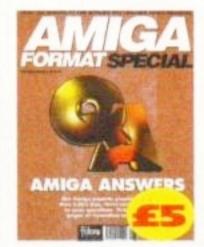


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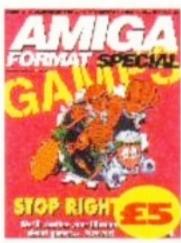
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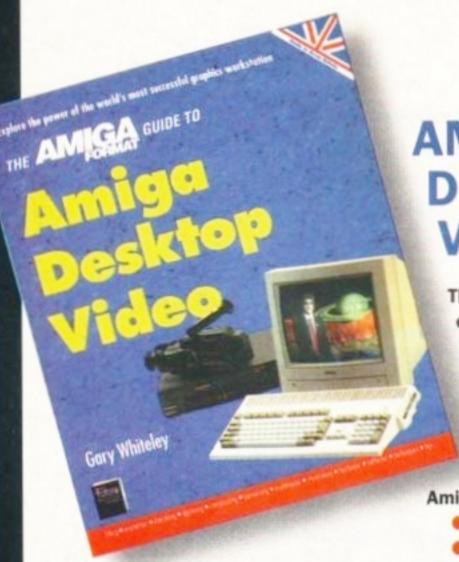
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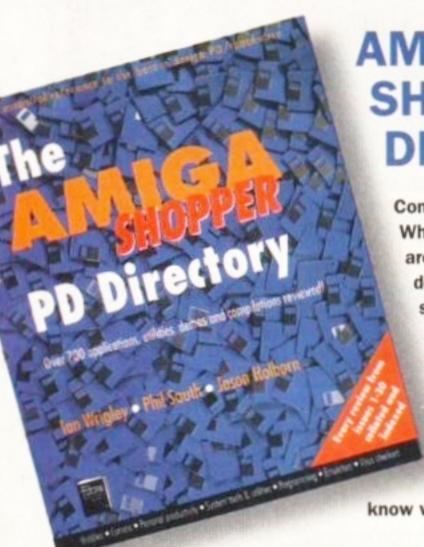
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Amiga Desktop Video shows you how to:

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The author, Gary Whiteley, is a professional videographer and Amiga Shopper magazine's 'tame' desktop video expert. In this book he explains desktop video from the ground up – the theory, the techniques and the tricks of the trade.

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Commercial software is expensive.

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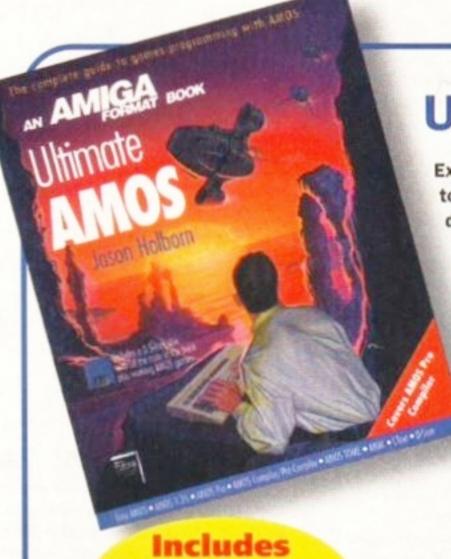
know whether it's any good.

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The Amiga Shopper PD Directory has been assembled from the first 30 issues of Amiga Shopper magazine. All the PD/shareware reviews since issue one have been collated, compiled and indexed in a single 500-page volume.

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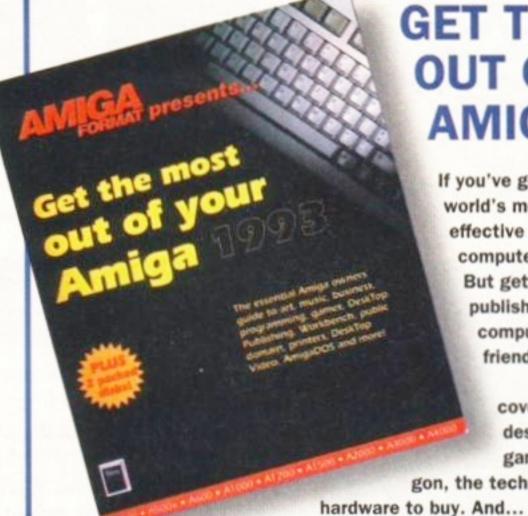
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to-understand descriptions, diagrams and dozens of example AMOS routines. All you need to produce your own Amiga games is a smattering of BASIC knowledge, AMOS - and this book!

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- Find out how to handle sprites and 'bobs'
- Incorporate sound and music
- in your games
- Discover dozens of handy AMOS routines for incorporating into your own programs

400 pages packed with all the information you need to get the best out of the Amiga's ultimate games creation package!

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This book is your guide! It covers every Amiga application, from desktop video to programming, from games to music, explaining the jar-

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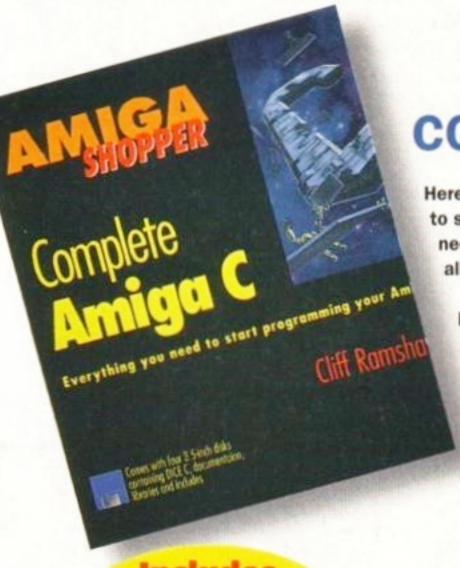
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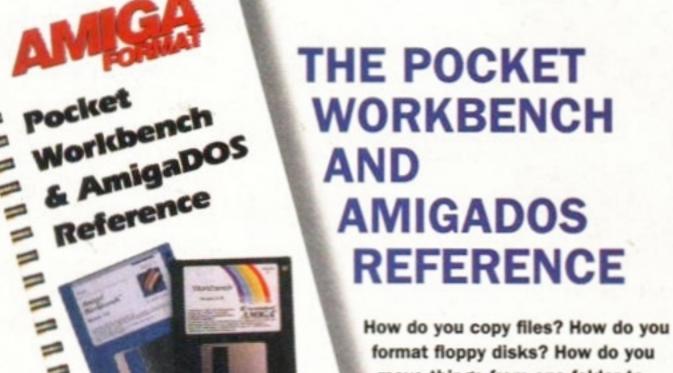
COMPLETE AMIGA C =

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Getting started in C programming has never been easier than this!

- Learn the basics of C programming with this 300-page book by Cliff Ramshaw, editor of Amiga Shopper magazine
- Write and compile your own programs using the full version of top shareware C compiler DICE, provided with the book
- Explore all the compiler's features with the on-disk documentation
- Exploit your Amiga's special features using the version 1.3 and version 2 Commodore 'includes' and 'libraries' also provided (these are compatible with version 3 machines but will not provide version 3 features)

Everything you need to get started in C programming on the Amiga is right here at a fraction of the price of a commercial package



format floppy disks? How do you move things from one folder to another?

If you've just got your Amiga, Workbench and AmigaDOS can be confusing - unless you've got expert help on hand:

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- Customise Workbench for your needs
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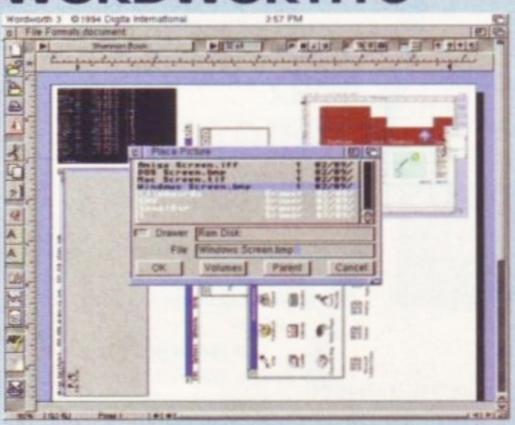
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WORDWORTH 3



If you were impressed by Wordworth 2, you'll be completely bowled over by its recently-released big brother Wordworth 3. The new version has several features that are totally new to Amiga word processing software. These include editable

pop-up gadgets, font-sensitive requesters and a user-editable tool bar - the main control panel - which can be arranged down

the side or across the page. Wordworth 3 (AF Gold 92%, Issue 59) is a prince among word processors.



| Description | Wordworth 3 |
|-------------|-------------|
| RRP | £149.99 |
| AF price | £99.99 |
| Order code | AMFWW3 |

WORDWORTH 2



Although it has now been overtaken by

Wordworth 3, this is still an
excellent word processing
program. Especially at this price.
Wordworth 2 from Digita is
powerful, fast and packed with
features such as Intellifont which
enables you to use fonts from 4 to
800 points in size, mail merging, a
comprehensive dictionary and
thesaurus, and an indexing system.
Reviewed in AF41, Wordworth 2
scored a golden 91 per cent.



| Description | Wordworth 2 |
|-------------|-------------|
| RRP | £129.99 |
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| Order code | AMF266 |

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word processing package and the Home
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BENEATH A STEEL SKY



(reviewed AF57, 94 per cent) is an absorbing and compelling graphic adventure from Revolution Software featuring brilliant graphics, by cult comic book artist Dave Gibbons. One of the very best Amiga graphic adventures.

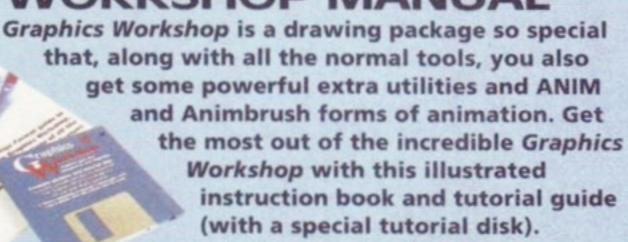
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| Description | Beneath A Steel Sky |
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| RRP | £34.99 |
| AF price | £29.99 |
| Order code | AMFBSS |



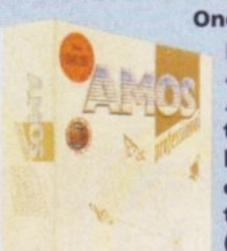
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| AF price | £24.99 |
| Order code | AM220 |

GRAPHICS WORKSHOP MANUAL



| Description | GW Manual |
|-------------|-----------|
| AF price | £13.95 |
| Order code | AF249A |

AMOS PROFESSIONAL



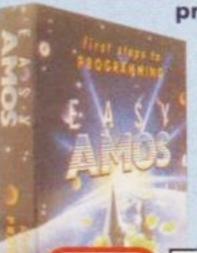
One of the highest-rated programs ever reviewed in AF (94%, AF40). Top of the AMOS range, it updates the AMOS programming language with new commands and facilities that make it a real winner! (Needs 1Mb minimum.)

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| Description | Amos Pro |
|-------------|----------|
| RRP | £69.99 |
| AF price | £59.99 |
| Order code | AFAMPRO |

EASY AMOS

Designed for the novice



AMOS is based on the successful AMOS language. It has many examples and detailed explanations to help you learn.

save £5

| Description | Easy Amos |
|-------------|-----------|
| RRP | £34.99 |
| AF price | £29.99 |
| Order code | AF250 |

AMOS MANUAL

If you want to get the most out of AMOS The Creator, you need this complete manual, which includes an Extras disk with all the example programs we couldn't fit on the AF

Coverdisk. The Amos
Manual will make
your AMOS
career more
creative!

Description AMOS Manual
AF price £13.95
Order code AF249

153

TECHNOSOUND TURBO 2

Like the original Technosound Turbo, version two of this sampler from New Dimensions, enables you to grab digitised sounds, and sequence them into compositions. But it also features many improvements, and new functions, including direct to hard disk recording, and a built-in tracker The package also contains a digitiser and a set of audio leads. Reviewed in AF51, it scored 88 per cent.



| | Description | Technosound Turbo 2 |
|--|-------------|---------------------|
| | RRP | £39.99 |
| | AF price | £29.99 |
| | Order code | AMFTT2 |

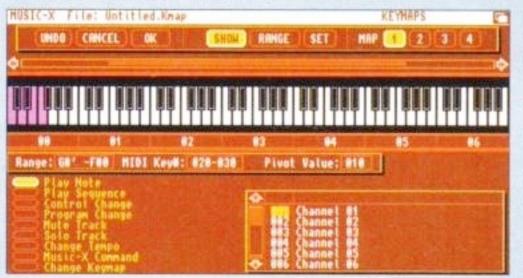
SCREENPLAY **BOOKS 1 & 2**

We thought they were all gone, but in a recent office tidy-up, we unearthed a couple of boxes of Screenplay books and decided to offer them to readers at this bargain price. Packed with hints, tips and

> cheats for hundreds of early Amiga games, they are a godsend for gamers.

| Description | Screenplay 1 & 2 | | | |
|-------------|------------------|--|--|--|
| AF price | £9.99 | | | |

MUSIC-X 2



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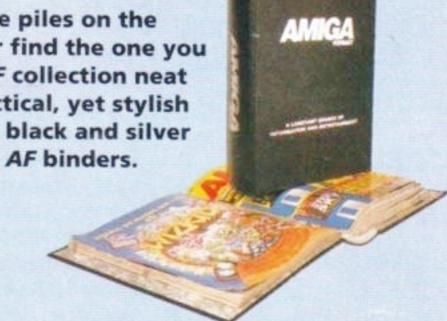
| Description | Music X 2 |
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| RRP | £149 |
| AF price | £119 |
| Order code | AMFMX2 |

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| Description | One binder |
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| AF price | £4.99 |
| Order code | AF108 |

| Description | Two binders |
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| AF price | £9 |
| Order code | AF109 |



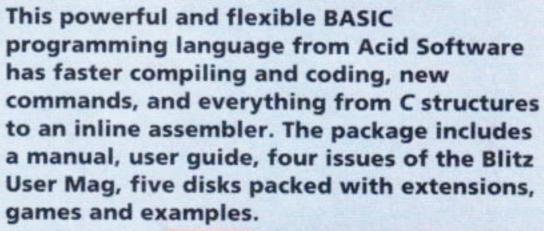
MONEY MATTERS 3

This excellent home accounts program is easy to use, flexible, powerful and fast. Money Matters 3 includes features that enable you to view the data in the form of graphs or pie charts to help you keep track of your cash. Money Matters 3 scored a highly impressive 85 per cent reviewed in AF54.



| Description | Money Matters 3 |
|-------------|-----------------|
| RRP | £49.99 |
| AF price | £39.99 |
| Order code | AMFMM |

BLITZ BASIC 2





| Description | Blitz Basic 2 |
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| RRP | £69.95 |
| AF price | £49.95 |
| Order code | AMFBB2 |

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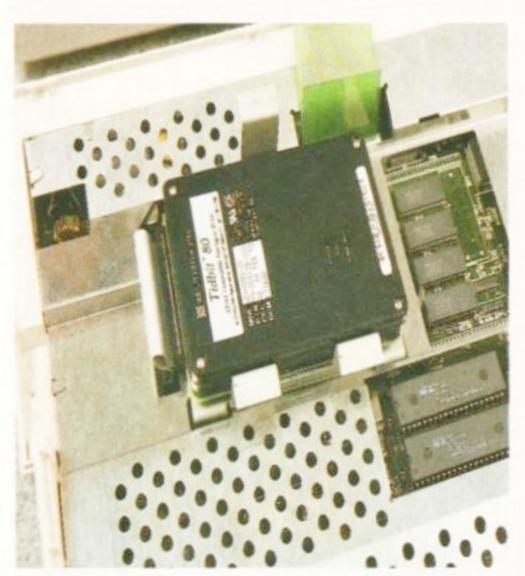
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However big or small, or whatever they're about (as long as they're Amiga-related), your problems are our problems and we're here to solve them. Scribble down your woes and send them off to us at: Workbench, Amiga Format, 30 Monmouth St, Bath, Avon BA1 2BW.



If you've got an IDE mechanism fitted to your machine, the easiest way to break it is to try to low-level format it.

FORMAT FOLLY

I recently bought an A1200 with a 120Mb hard drive fitted. In my eagerness to tinker with it, I somehow got to the point of carrying out a lowlevel format of my hard drive!

It was when the HD drawer icon changed to a floppy disk icon and previously saved games went walkies to different places, that I knew something was wrong! To cap it all, I then read the 'Faulty Fitting' letter in Workbench, AF55, in which you clearly stated: "Do not, whatever you do, low-level format your drive".

How can I restore my hard drive to normal? R Glendenning, Carmyllie By Arbroath, Scotland

Oh dear. Well, I'll tell you what happens. The Integrated Drive Electronics drives were designed to make life as easy as possible for the host machine. As a result there is a certain amount of 'need to knowing' going on. The drive electronics takes care of mapping the blocks on the drive, dealing with block errors and so forth. The little chips take their task very seriously and never tell the host computer anything that might alarm it.

When you low-level format the drive, all this psychological cushioning is thrown aside. The computer takes direct control of the drive and rewrites all the data itself. When the drive electronics kick in again, they haven't a clue what has happened. It's like someone has snuck into their office in the middle of the night and stolen all their paperwork. Essentially they throw a wobbly, go nuts and will never work again.

Your mechanism has unfortunately ceased to be, it is an ex hard drive. However, it did not die in vain - let it be an example to others:

IF YOU HAVE AN IDE MECHANISM DO NOT LOW LEVEL FORMAT IT.

I don't think your drive is in any way recoverable, but you could find out if you the manufacturers would part exchange it with a new one. You never know.

PRIZES GALORE

I have spotted an Amiga on the telly. In Country File on BBC 1, there was a writer using an Amiga to write an article for a camcorder magazine. Do I get a prize?

Neil Adams, Prestwick, Scotland

This isn't a Workbench question, is it? And, no you don't get a prize! The next person who spots an Amiga on some Australian soap, or being given away as a prize on some sad Saturday show, and writes in to tell us about it will have violence visited upon their persons (except in cases where they would enjoy it).

ORGANISED CHAOS

I am writing in reply to Mr Anonymous (AF58) who is having trouble with comms on his Psion 3. I own a Psion 2 Organiser and also couldn't run the sup-

Continued overleaf



Nick Veitch

At Amiga Format we aim to answer as many questions as we possibly can every month, and hopefully to sort out all your problems. Of course there are always more questions than answers. so we have to prioritise queries according to the following factors:

BENCH

- Frequency. If a lot of people seem to be having problems with their Supersonic KY3000 printers then we will print one letter and the definitive answer, encompassing all the most frequently posed problems.
- Difficulty. If the problem is actually something which only someone with some insider technical knowledge would be able to solve, it is more likely to be answered in these pages than a problem which arises simply because you haven't read the necessary documentation.
- Impact. Quite simply, a question which involves you not being able to use your machine or some peripheral or software will be given priority over a difficulty which is little more than a slight inconvenience.

Unlike some magazines we won't just concentrate on the areas of expertise we are most familiar with, we will take on any problem (as long as there is an Amiga involved). We have even enlisted the help of Commodore's Chief Engineer for those particularly tricky questions. As you will appreciate, we do get a lot of questions. If you want to get yours noticed, here are a few tips:

DO

- Be concise.
- Detail the actual problem as best you can.
- Where applicable, describe the sequence of events that caused the problem.
- Give details of the equipment you are using (including which version of Workbench and which model of Amiga you have).
- Make sure your question is relevant and wouldn't be more easily solved by the dealer from whom you bought the goods.

DON'T

- Spend three pages telling us about your Aunt Ethel and only then explain your problem.
- Write in with questions such as 'I added a hard drive to my machine and it doesn't work. What can I do?' (Which machine? Which drive?)
- Send an SAE expecting a personal reply. The chances are extremely slim.

Please bear these points in mind and remember that we are trying our best to help you.

DISCS AND DISKS

I have two very important questions. The first is: can you tell Commodore to get off their big fat burns and release a CD-ROM for the A1200? And before you say it - I don't care if it costs more than the CD³²

The second question is that I have been collecting Amiga Format for the last two and a half years and just lately you have been putting some brilliant disks on the cover of your magazine. They are clear and come in red, green and blue.

So please, please can you tell me where to get them from?

Mark Huettinger, Tonbridge, Kent

Commodore have got off their, I think reasonably sized, bums and announced that they will release the A1200 CD drive in September, as you have no doubt already read in the last issue. You can stop writing to them now.

As for the disks, we bought them from some sweat-shop in the Far East - I don't know of anyone selling them separately. The only two sources I know of are Amiga Format back issues (see page 148) and our duplicators, DisCopy labs. If you made a reasonable offer to buy in bulk they might be able to sort you out. Their address is: DisCopy Labs Ltd, PO Box 21, Daventry NN11 5BU.

plied software, so I copied it to a 3.5-inch disk, then using a PD IBM software emulator I managed to run the supplied comms program.

Also, a couple of years back, Dave Westwood wrote *Psion Comms-Link* for the Psion 2 which is a lot easier to use. He may have also written a version for the Psion 3 because the documents said that he wanted to keep developing for the Psion and the Amiga. The address given was: 14 Davar Drive, Kirkaldy, Fife, Scotland KY2 6RT. I hope this is of some help.

Graeme Richards, Lancing, Sussex

Thanks very much for your help. Running the software on an IBM emulator is a good solution. I have written to Dave Westwood, but as yet there has been no reply, so anyone wishing to contact him will have to take pot luck.

FAULT TRACED

To make the *Tracer* demo of *AF58* Coverdisk B work on an A1200, all you have to do is run *ARexx* (REXXMAST).

Eddie Pang, Loughor, Swansea

Hurrah! Thanks very much for pointing that out. We traced a couple of the problems back to *ARexx*. If you have the *Tracer* demo and can't get it to work on your machine, try running REXXMAST. It should be located in your System drawer (Workbench 2.04 and up).

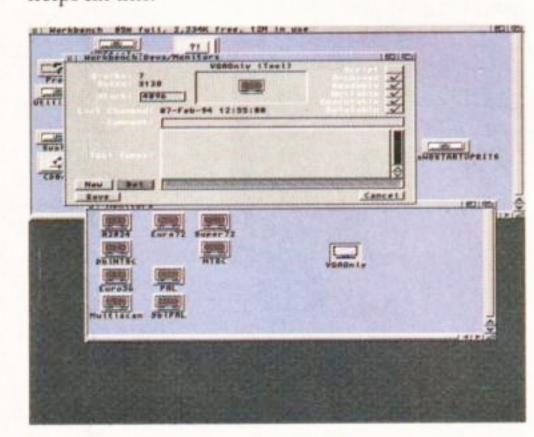
ONLY VGA

I want to use the A600 with hard drive and *Protext* for word processing. I don't need it for anything else because I have a CD³². Can you advise me what would be a suitable monitor – perhaps VGA mono or colour? Would this be OK if they operated at the appropriate frequencies (31.44kHz and 60Hz for A600 productivity)?

A Smith, Great Barr, Birmingham

When you say you don't need it for anything else, I think just using a word processor is a bit of a waste but hey, it's your machine. You can run on a VGA monitor.

You don't say which version of *Protext* you have. Versions 5 or 6 will work best, but earlier versions will still work. VGA monitors are not ideal for the Amiga because they do not support lo-res (15kHz) screens, but there is a utility called *VGA Only* which helps fix this.



The VGA Only utility is supplied with Workbench and makes VGA monitors much more useful.

ART OF DARKNESS

I have recently purchased a Hewlett Packard 310 printer (with colour kit), and I am having problems printing from *Deluxe Paint IV AGA*. I got the *Studio Light* printer driver with it, and have installed this

To the point...

I have just purchased a Canon BJ-105X printer to go with my Amiga 500+. Do I need a specific driver to get the best results for printing graphics?

A Yes you do. Canon printers destined for use on the Amiga are now supplied with drivers, so you should check with the shop you bought it from. Alternatively, you could contact Canon direct on 081-459 1266.

Could you please tell me how to connect a cassette player to an A1200?

A If so, all you need is a set of phono leads that will connect to your tape deck. If you think you can use it to store data on a la C64, forget it.

I have decided to upgrade from my good old A500 to an A4000/30, and I would appreciate you helping me to clear up the following technical problem. Is it possible to fit a PC IDE hard drive on an A4000/30? Do all sizes match?

A Yes, you certainly can fit an IDE drive to the Amiga. There is no such thing as a PC IDE drive, they are all just IDE drives and will work fine. For the A4000 a 3.5-inch mechanism is best, as it will fit nicely in the drive bay. A 2.5-inch mechanism will also work, but you need to get an adaptor because the cables are different sizes.

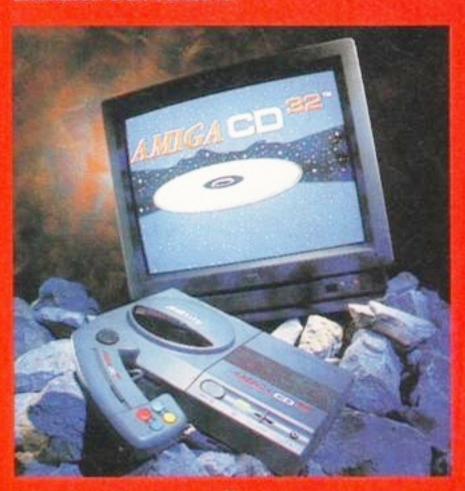
I have a CD³² and I'm very interested in the Microbotics SX1 expansion module so that I can add a keyboard and a disk drive.

Does it have an RGB output so I can use a monitor? At the moment I use the video output, but RGB gives a much better picture. Also, can you tell me what the difference is between S-VHS and RGB?

As I write these pages, the Microbotics expansion (now being produced by ParaVision) has not yet appeared, but the technical specification does include an RGB output. S-VHS is a standard for component video. There are two signals, Chrominance and Luminance. Because these are carried separately, a better quality image is obtained.

Paint, but I am annoyed that the playback speed is quite low, even though the program says it is doing 20 frames per second.

Well, the easy answer to improving your creations is to buy the next issue of Amiga Format, because we'll have ClariSSA on the Coverdisk. This excellent program creates super smooth animations and is a must for any Amiga animator. Don't miss it.



RGB output from the CD³²? It could mean a better picture for thousands of owners.

on to the *Deluxe Paint* disk in the devs/printers drawer (I have managed to squeeze the *Deskpref* program into the Prefs drawer).

I used Printer Prefs to set up the driver and then ran *Deluxe Paint*. When I try to print a picture it comes out too dark, sometimes virtually black. I have also tried using *TurboPrint 2* (from *AF51*'s Coverdisk) – but this has the same effect.

Please tell me how I can improve the quality and if I have installed correctly. Please help as I have spent fruitless hours trying to work it out, and the alternative driver (the crap Workbench one) is awful. I could do better using crayons to trace the picture off the screen!

Nick Donnelly, Ely, Cambridgeshire

The Workbench driver isn't too hot, especially when it comes to colour, but you should have had better luck with the *Studio* software. *TurboPrint* should work OK, though. Have you tried reducing the brightness (in case of too much black) or the three colour sliders (in case of too much colour density)? Refer to page 8, *AF51* for more information on this.

The *TurboPrint Professional 2* program, which it might be an idea to upgrade to, allows better control over colour curves – see page 147 of *AF51*.

LOOKING AHEAD

I'm thinking of upgrading my A500 to an A4000/030, but I have a few questions first.

- 1) With the entry of the new AAA chip set, I fear that the A4000/030 will get left behind. Is the A4000/030 upgradable to this new chip set?
- 2) Is Electronic Arts' Deluxe Music 2 compatible with the A4000/030?
- 3) Is the Supra-Fax Modem V3.2 Bis compatible with the A4000/030?
- 4) Are third party manufacturers producing upgrades to the 68040 CPU for A4000/030 users, or will they in the near future?
- 5) Is it worth upgrading from my A500 with a GVP 80Mb hard drive, second floppy drive, 3Mb RAM and Philips CM8833 Mk11, to an A4000/030 with 130Mb hard drive, 6Mb RAM and a Commodore 1942 monitor?
- 6) Is the price of the A4000/030 going to drop?

 Stephen Brooking, Sherborne, Dorset
- 1) No.
- 2) Yes.
- 3) Yes.
- 4) Yes. Several companies are, including GVP.
- 5) Silly question of course it is.
- 6) Probably not. It could be argued that it is a little

overpriced, but if you were running a company that had just lost a lot of money, would you drop the price of your products?

SWEET PD

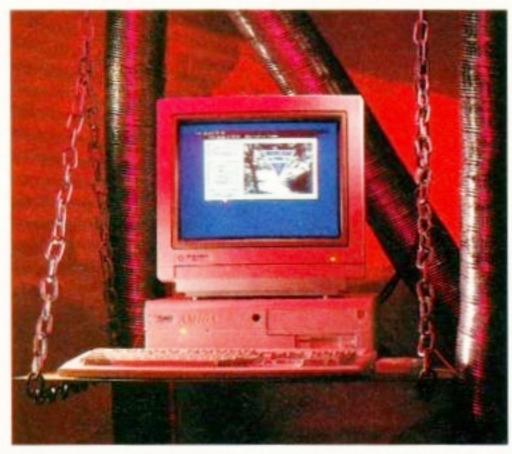
I recently upgraded my A500 to an A1200, and although I initially purchased an Amiga solely for games, I now use my A1200 mainly for music, graphics and word processing.

I've always been a heavy user of PD software, but I am becoming increasingly frustrated at the cost of obtaining so-called 'free software'. I am considering buying a modem so that I can access Bulletin Boards and Public Domain libraries to obtain the large amounts of PD software I would like. Are the programs and files obtained in this manner free, or are charges made for the service? Bearing in mind the initial cost of the modem and the prospect of increased phone bills, is this method any cheaper than buying disks direct from PD libraries?

Also, would a CD drive be a good way to obtain cheap PD software, and is there likely to be a good supply of CDPD for the Amiga soon following the demise of the Amiga CDTV and the cancellation of Commodore's own CD drive?

Isaac Hunt, Victoria Park, Manchester

It's an interesting point. I think this may be fodder for a future PD special. In essence, all PD programs are free. When you buy from a PD library you are actually paying for the disk, the postage, the time spent copying it, the overheads of run-



The A4000 is still a top-of-the-range machine, though some may think it's a bit pricey.

ning the library - it is against the spirit and the law of Public Domain for PD companies to make huge profits, but paying the people who operate them for their time seems only fair.

Most Bulletin Boards carry Public Domain software, but you still pay. You pay for the phone call, the initial cost of the modem and, in some cases, you have to pay a subscription to the board.

After all, there's no such thing as a free lunch, but at the end of the day a few quid isn't much to pay for software or data that has taken someone else a lot of effort to produce.

PD on CD can be cheap, but there aren't that many PD discs available.

HARD LUCK

I would like your advice regarding the fitting of a hard drive to a standard Amiga 500+, bought about November 1992, using Workbench 2.04.

I have been given a Maxtor model 7040A1.40Mb drive taken from an IBM P/S 1, the owner having upgraded to a very much larger unit. I am told that this is a standard IDE Drive, but more than that I do not know. Is it possible to fit it to the Amiga, and if so, how?

M W Gammon, Portcheser, Hampshire

(BENCH

To use an IDE mechanism you will actually need an IDE interface. There is an internal interface designed for this purpose called AdIDE from the American firm ICD, but unfortunately Power Computing are no longer distributing it. You could try ICD themselves on 0101 815 968 2228.

RAD AS WELL

We are the proud owners of an Amiga 600 (v2.04) and an A1200 (v3.0), both with 2Mb of memory. Previously, we owned an A500 (v1.3) which we used to create a RAD disk using the command MOUNT RAD: This could retain its contents after rebooting the machine, and could execute a startup-sequence. When we enter this command on our present machine, we are presented with the message "Error while accessing Devs:mountlist".

Please could you enlighten us as to the proper procedures for creating RAD disks on our machine. We know they must exist as the REM-

Continued overleaf

WHEN STARTING UP IS HARD TO DO

I have an A500 with 1Mb RAM and Kickstart 1.3, which I soon hope to upgrade to 2Mb. I also wish to fit a ROM sharer with a 2.04 ROM fitted. I have seen Workbench 1.3 and 3.0 (my brother has an A1200) and would like to know the following:

1) Could you tell me the differences between the Workbench 2.04 and 3.00

2) Please print the listing of the 2.04 startup-sequence, so that I can compare it with 1.3 and 3.0.

3) If I wished to change a script in any way, I assume that it would be best to add it on rather than at the start, is this correct?

4) Would you recommend the screen editor, ED, for altering a script, or would I be better off with some other method such as another language or the Shell. John Paul Smart, Eshwinning, Durham

There is guite a difference between 2 and 3, because there are a lot of commands now in ROM which used to be on disk, so a lot of the resident commands are no longer required. Because the structure of Workbench has changed there are a few more assigns in 3.0, but less mounts, as there is no longer a default mount list. Here is the complete listing of 2.04:

c:setpatch >NIL: c:version >NIL: addbuffers >NIL: df0: 15 Failat 21 Resident >NIL: C:Execute PURE ADD makedir ram: T ram: Clipboards ram: env ram: env/sys

copy >NIL: ENVARC: ram:env all quiet noreq

assign ENV: ram:env

assign T: ram:t ; set up T: directory for scripts

assign CLIPS: ram:clipboards

assign REXX: s:

if exists sys:Monitors

join >NIL: sys:monitors/~(#?.info) as t:mon-start execute t:mon-start

delete >NIL: t:mon-start

endif

BindDrivers

setenv Workbench \$Workbench

```
setenv Kickstart $Kickstart
IPrefs
echo "Amiga Release 2. Kickstart $Kickstart, Workbench
$Workbench"
conclip
mount speak:
mount aux:
mount pipe:
path ram: c: sys:utilities sys:rexxc sys:system s:
sys:prefs sys:wbstartup add
if exists sys:tools
   path sys:tools add
   if exists sys:tools/commodities
   path sys:tools/commodities add
   endif
endif
```

; If this is the initial boot (i.e. keyboard env variable is not set) ; then execute PickMap which will query for a keymap and set the ; keyboard env variable. ; if keyboard env variable is set, set the keymap if \${sys/keyboard} NOT EQ "*\${sys/keyboard}" setmap \${sys/keyboard} else PickMap sys: initial endif if exists s:user-startup execute s:user-startup endif LoadWB endcli >NIL:

If you want to add things, it is better to add to or create a file called userstartup, which is executed by the main script when it has done all the important things. ED is very serviceable for editing short scripts, and is certainly more suited to the task than a standard word processor.

RAD command resides in the C directory of the Workbench disks.

Chon Mitchell and Angus McNonny, Inverness

There is no mountlist in Workbench 3. Devices are automatically mounted if their definitions are in the devs drawer and they are accompanied by Project icons whose default tool is 'C:Mount'.

There is no listing for a RAD disk, so you will have to make it up yourself. Open up ED or another text editor and enter the following:

device=ramdrive.device
unit=0
flags=0
surfaces=2
blockspertrack=11
reserved=2
interleave=0
lowcyl=0
highcyl=79
buffers=5
buffmemtype=1

and save it. You could save this file as 'devs:mountlist' if you want, and mount RAD from the Shell, but the icon method is more stylish. Create an icon using IconEd and then change the Tool using the Workbench Icons>Information selection. You could have more than one RAD disk (if you have the RAM for it) just by increasing the unit number.

UPGRADE SCHEME

Machine – A500 (rev 5) Agnus 83721 (upgrade)

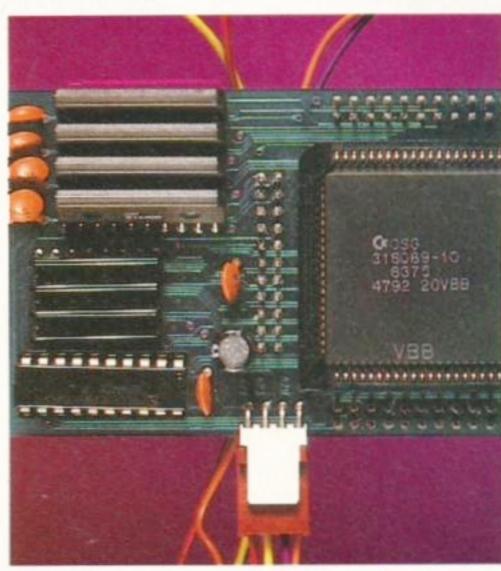
Workbench 1.3 (upgrade and ROM)

Expansion baseboard 1.5Mb supplied by TriLogic 1) Is the Pro-Agnus 2Mb supplied by WTS Electronics going to give me the same chip capacity (1Mb plus) as the 600/1200?

- 2) Almost 90 per cent of my disks are Workbench 1.2 (or 1.3). Will they run on new chip?
- 3) If I fit a ROM swapper 1.3/2.04, what will run? (I do have programs that are post 1990, such as Sim City.)

T J Parker, Holbrooks, Coventry

1) You're better off getting the Megachip2 from Power Computing (0234 273000) This will give you a total of 1.5Mb of Chip RAM, or 2Mb if you have a 512K expansion. However, your TriLogic baseboard may no longer work to its full capacity.



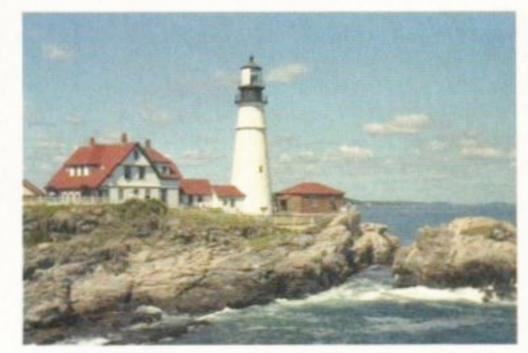
Upgrading to 2Mb of Chip RAM is quite easy, though not for those with shaky hands.

In-depth explanation Moderns

- Modem stands for Modulator/Demodulator
- 2 A modem works by taking binary data and 'modulating it'. This basically means it converts it into a series of tones one for a zero value and one for a non-zero value. It also decodes information coming the other way, converting the received tones back into ones and zeros.
- Because of the linear nature of the transmission, a modem is a serial device and must run at a certain speed. Both modems at either end of a telephone line need to be running at the same data transfer speed to be able to communicate effectively.
- The transfer speeds are measured in baud rates. Basically, the baud rate is the number of bits transmitted per second.
- The slowest modems operate at only 300 baud. This means they would take about one minute 20 seconds to transmit a 10K file.
- 6 A standard modem costing under £100 can transmit and receive at 2400 baud, or V22 stan-

dard. This is obviously six times faster. If you are buying a modem, make sure it is Hayes-compatible. The Hayes command set is the standard way that computers operate the functions of the modem, such as dialing and hanging up.

- Having error-free communication is very important. A few bits missing here or there can make nonsense of computer data. Various protocols have been developed to cut down on errors and many modems have error-correction built in.
- When sending binary files, one of several protocols can be used. When sending files it is even more important to eliminate errors, as a single mis-sent bit could render the entire file useless.
- The best file transfer system is ZModem, which is fast and error-free. ZModem automatically slows down or speeds up the transfer rate depending on line noise. If the connection is broken, you can also continue from where you left off when you reconnect.
- 10 These systems are usually combined in a comms software package. The most widely used Amiga comms software is NComm.



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2) As long as you are still running Workbench 1.2/1.3 you should be all right in the most part. 1Mb games may expect to find 512K Chip and 512K Fast RAM, so they may fail. The PD Degrader program could solve your problems here.

3) The point of a ROM swapper is that you can switch between Workbench 1.3 and 2. All your old stuff will work under 1.3 and the new stuff should run under 2.

IN THE PICTURE

I was left a little confused after reading the PhotoCD article in AF57. Although it was interesting, and I am using the system professionally, I could not take in how the PhotoCD image is played on to a basic monitor.

I have a Kodak 865 player which I play through a normal TV monitor. Because that monitor is often required elsewhere and my 865 is near to my son's A1200 with a 1940 monitor, I would initially like to simply play it through that system. Later, I want to impress potential clients with the use of the photo-image in a computer system. At this stage I don't want to buy a Mac and/or a PC.

Des Gerson, C-I-P Editorial, Partnership, Solihull

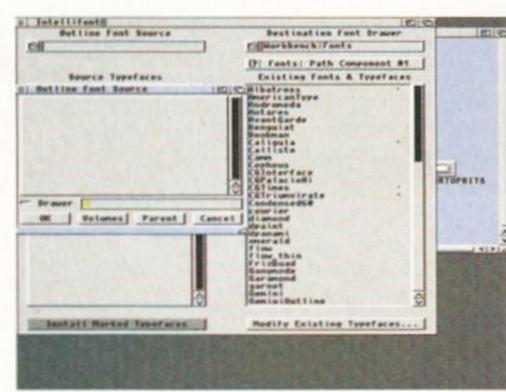
In order to access the PhotoCD directly, you will need to install some form of CD-file system to your Amiga so that it knows how the files are stored. A suitable system was released in the Public Domain, and can be found on Fish Disk 935. Check out the PD ads towards the rear of this issue. You could also use *PhotoworX* (see review on page 126).

INSTALLIFONTS

I am having problems with Compugraphic fonts on Workbench 3. I have tried using the *Intellifont* program to install the CG fonts in both Workbench and *DPaint IV AGA*, but I can't seem to find them on the fonts disk anywhere!

Sean Smart, Edwinning, County Durham

I think you may be getting a bit confused by the funny way in which *Intellifont* works. When you click on the Outline Source gadget to get up the requester, the actual font file names do not appear in it – it is only asking for the directory, not for actual files. When you OK the requester, any font files found in that directory appear in the lefthand window. You can then click on these and install. To



The Workbench system for adding scaleable fonts is not the easiest to follow.

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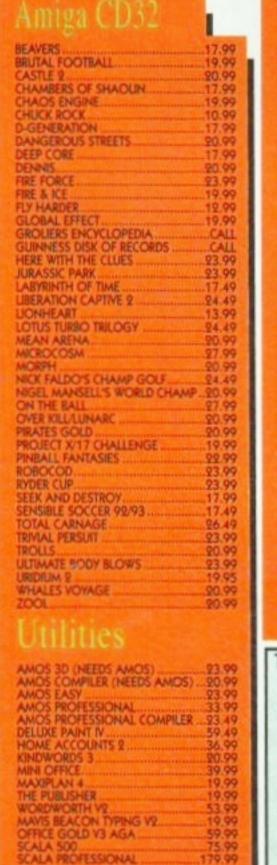
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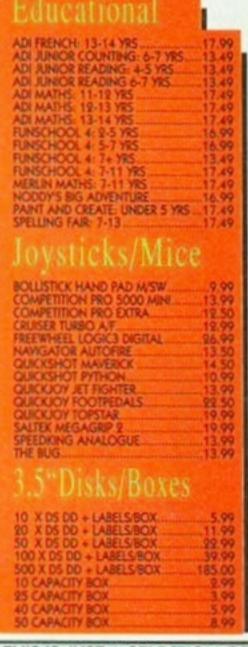
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INTRODUCTION TO WORKBENCH

The Amiga is a powerful computer, but it's not the only computer. In his final tutorial Pat McDonald tells you how to import Amiga graphics into different systems.

are everywhere. These days, it's not so much a question of what technology you possess, it's more a question of what you have access to. The tricky bit is importing and always a

ersonal microcomputers like the Amiga

exporting data between incompatible machines. The easiest, and most secure way to do this is to transfer via floppy disks formatted for the IBM PC.

This seems very unfair – after all, you didn't buy a PC, you bought an Amiga. Tough. IBM PCs outnumber all other makes of computer. The PC will always outsell the Amiga, because it's not easy to sell a hip and cool machine to a business user. If you suffer from an irrational hatred of PCs, bury it now. OK, PC owners are a pain, but you can't blame a pet for the ignorance of its owners.

This business of transferring between a PC (or Mac or ST or whatever) and the Amiga may not seem worthwhile. But there are times when you will need to alter text, graphics or sound on one computer and export it to the other.

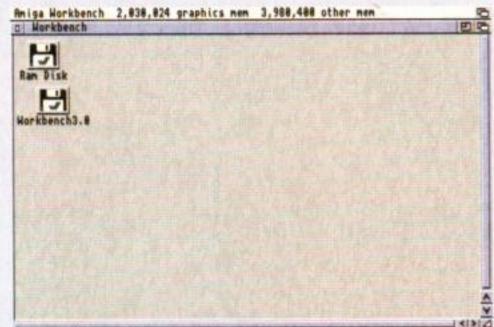
The Workbench program that enables you to read and write data files to PC disks is called *CrossDOS*. It's not normally operational – you have to get it running before Workbench will handle files from PC disks.

Remember that a standard Amiga only handles double density disks. If you want to read high density disks commonly found on PCs, you will need a high density disk drive, such as the Power Computing XL drive. You can tell if a disk is high density because HD disks have an extra hole opposite the write-protect tab.

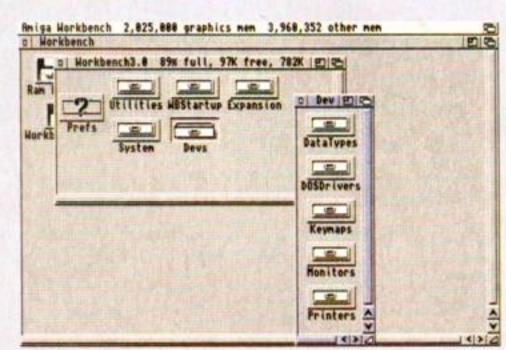
CrossDOS won't enable you-to run programs for other computers on your Amiga – to do this you need an emulator which fools the Amiga into thinking it's a different computer.

GETTING CROSSDOS WORKING

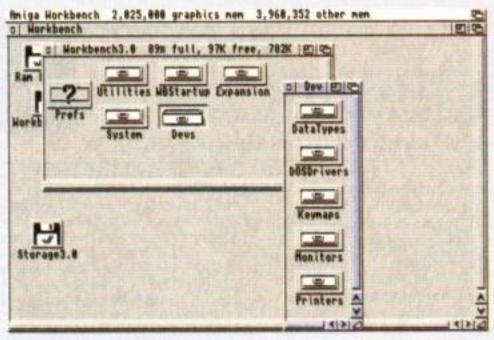
Before you can expect to read PC disks, you have to copy the *CrossDOS* icon to the right place. It's really very easy, just follow these six simple steps. Remember, NEVER use the original copy of Workbench, always use a copy and keep your original Workbench disks out of harm's way,



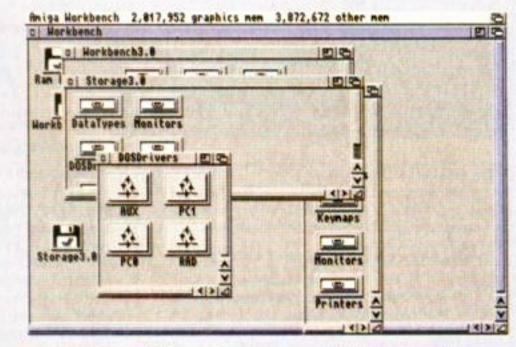
1 First, load Workbench. If you have a hard disk fitted to your machine, then just turn on.



2 Double-click on the Workbench icon, and on the Devs drawer. Remove the Workbench disk.



3 Insert the Storage disk. An icon for it will appear but you may have to rearrange the Workbench display to see it.



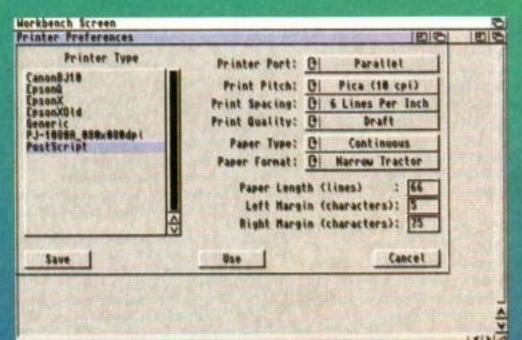
4 Double-click on the Storage disk icon, and again on the DOSDrivers icon.

TRANSFERRING A POSTSCRIPT FILE

The best printers are laser printers. They are fast, high-quality and expensive. So most Amiga owners cannot justify buying one. But a lot of people have access at work or college to high-quality laser printers, or perhaps even Linotronic machines to turn your work into film.

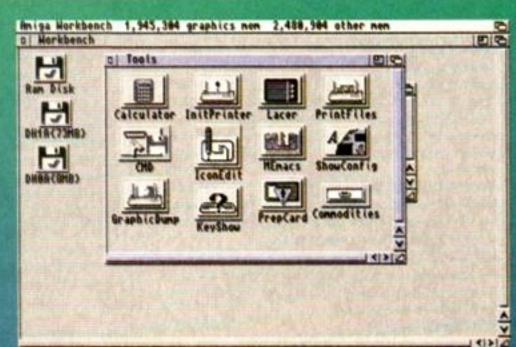
The problem is that many of these printers only recognise PostScript files. Wouldn't it be nice if you could create PostScript files, put them on disk and give them to somebody else to print on a laser printer? Well, you can, and it's easy – just follow these steps. But be warned, PostScript files are quite large, and you can easily produce files that will not fit on a double density PC disk.

Also, be aware that any kind of printer can be used, not just PostScript types. So long as you have an Amiga printer driver for the target printer type, you can quite easily get your work printed out.



First, you must set your printer driver to the relevant type. I'm setting it to PostScript in this example. If you don't know how to change your printer type, check last month's tutorial.

0



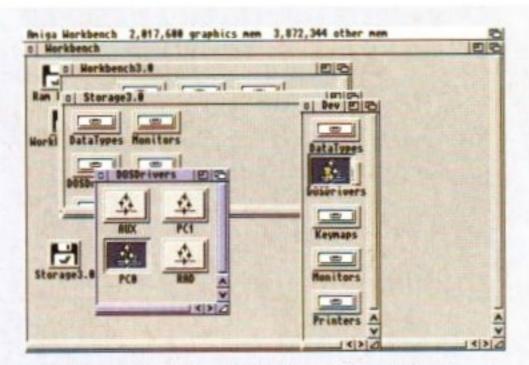
2 Next, you have to tell Workbench to redirect printer output from the printer and into a file. Double-click on the Tools drawer, and click once on the CMD icon.

T

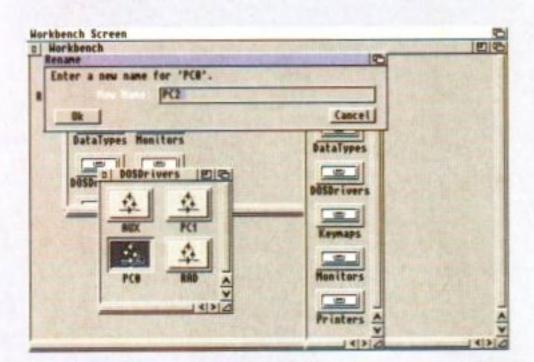
CROSSDOS COVERDISK

So, what do you do if you have an older version of Workbench which doesn't have CrossDOS? Way back in Issue 40 of Amiga Format, CrossDOS appeared on the Coverdisk. Getting it to run on an older machine is easier than the Workbench 3 version shown below.

However, installing it permanently on Workbench is a fiddly Shell job for Workbench 1.3 or earlier. Another problem is that, given this magazine's popularity, that particular issue has sold out. So if you haven't got that issue, buy a Workbench 3 machine. Go on, you know you want to.

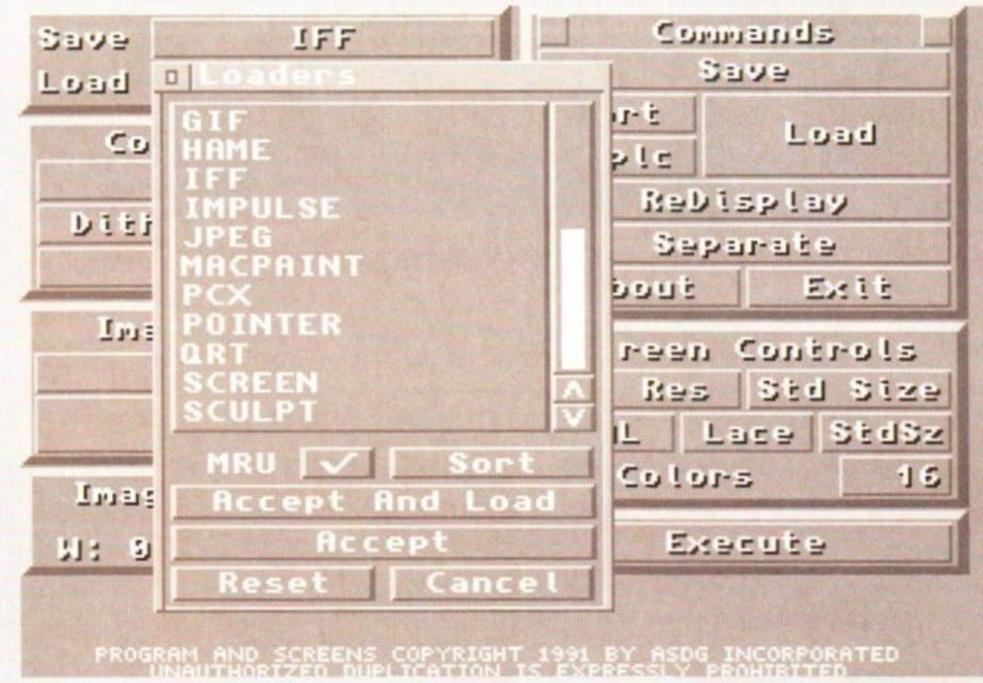


5 Click and hold on the PCO, and drag it to the Printers drawer inside the Devs window. After a few disk swaps, CrossDOS automatically recognises PC disks – the DFO icon will have a corrupt name, but the other icon should operate just like an Amiga disk.



6 Should you wish to use PC disks from an external drive, you need to copy the PC0 driver but rename it to PC1 (or PC2 if you have two floppy drives already).

HOW IT ALL HAPPENS AT AMIGA FORMAT



Art Department Professional takes ages to work on standard Amigas, but it's an invaluable program for converting graphics files to different formats. There are numerous Public Domain programs that do the same job, but none of them are as comprehensive and offer all the features as ADPro.

Down at the Amiga Format offices in Bath, PC disks are used quite a lot to import Amiga files into the Apple Macintosh desktop publishing system. This may seem hypocritical – after all, this magazine is forever praising the merits of the Amiga, so why don't we use Amigas to actually produce Amiga Format?

The simple answer is that Future Publishing (like practically all magazine and design companies and an increasing number of newspapers) uses a network of Apple Macs for laying out pages and printing them to film. It would waste a lot of Future's money and time to set up a separate Amiga desktop publishing system just for Amiga Format.

However, Amigas are used a lot for generating the words and graphics that make up the magazine – the raw material, as it were. Here's how we transfer all the stuff you see on the finished pages from Amiga to Mac.

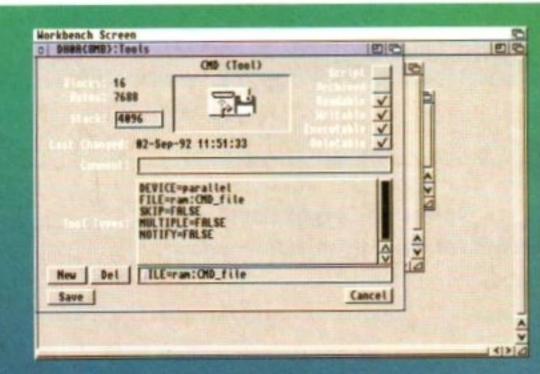
First of all, we have to format the PC disks on the Apple Macintosh using a program called Apple File Exchange – if you don't format the PC disks on the Mac, it won't be able to read or write to them properly.

After that comes the really tricky part – converting the files from an Amiga data format (such as IFF) into a form that the Macintosh can understand. Two main programs are used for this. The first is *Ptomac* (which stands for Protext To Mac) which is used to strip out hidden control codes in text files. You can't get this program commercially, but if you save your text files in ASCII from your word processing program, that should do the job.

The second program is Art Department
Professional V2. Amiga Format's version has an
extra saver module, which can save 24-bit
graphic images in Mac Pict format. You don't get
this with ADPro as standard – you have to get it
from ASDG in America.

Although some Macintosh programs apparently load and save Amiga files, in Amiga
Format's experience you get a better success rate if you convert with the Amiga.

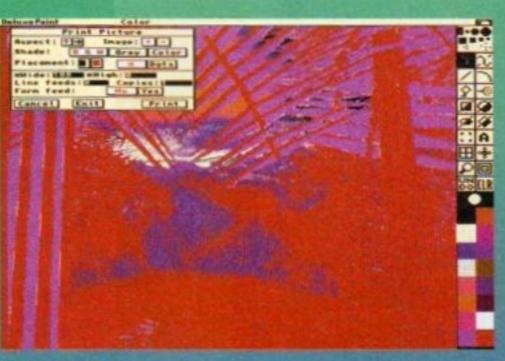
Finally, we just copy the relevant converted file on to the PC disk, and read it on the Mac. It sounds quite complicated, but it all works surprisingly well and shows how you can integrate the Amiga into a busy office environment.



3 Select Information from the Icons menu with the right mouse button. The above screen should appear. The arrow points to the bit you have to change – as set, it will redirect printer output to a file called CMD_File in the RAM disk. If you change that to PCO: then the Amiga will expect a PC disk to be available when a file is printed.



4 Once you have decided where you want your output to go, click on Save, and then double-click on the CMD icon to set it running. Then insert the disk you want and start the program running – I'm using DPaint in this example, but it doesn't matter. DON'T RESET – if you do, your Amiga will forget everything you've done so far.



5 Got the program running? Right, insert a blank formatted PC disk, and then select Print from the program. After a long time, your computer will have printed the relevant file to the PC disk. Finally, take the disk to a PC and copy it straight to the printer. Use something like COPY A:CMD_FILE TO PRT: and your Amiga artwork should get printed out without any problems.

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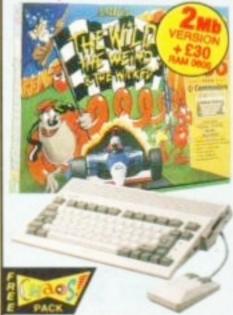
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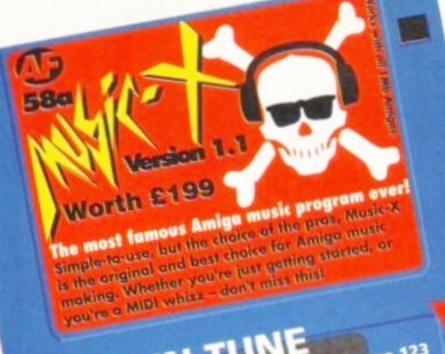
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Music-X v2.0 review on page 152 to order your copy of Music-X 2.0 at a special AF bargain price,

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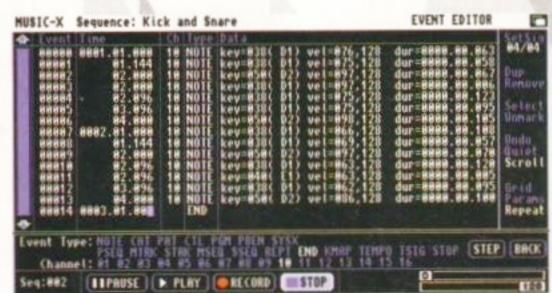
STARTING OFF THE TUNE

CREATING AND EDITING DRUM PATTERNS



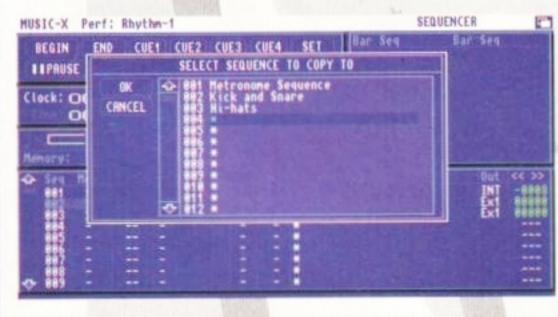
MIDI equipment as specified last month and load the file containing the drum tracks you recorded. You need to round off the lengths of the patterns otherwise the timing will go

to pot when you try to play them. Click on the Kick and Snare sequence and then on Edit to enter the edit window.



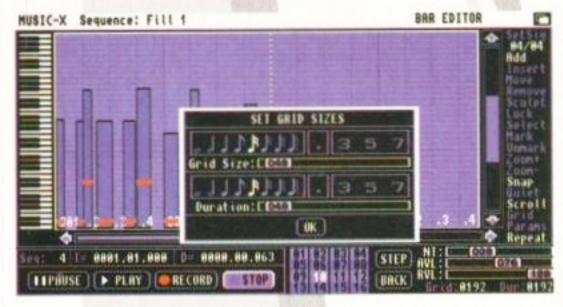
2 Select Event from the Edit menu to go to the Event List. Adjust the pattern length to two bars, by making the number in the Time column next to End 0003.01.000. If there are more notes, type in new

times so they end before the third bar. 0002.04.119 pulls them inside the marker. Select Exit from the File menu and Store. Repeat for hi-hat patterns.



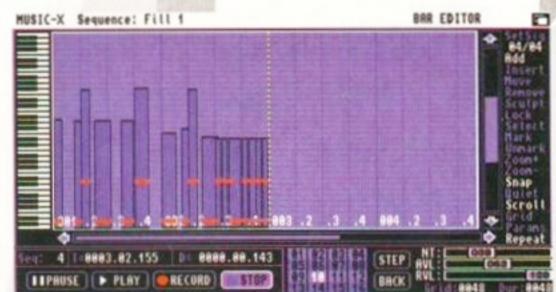
3 To create some fills you must first copy the basic drum pattern. Highlight the Kick and Snare pattern in the list and select Copy Sequence... from the Option menu. When the window appears, select the

sequence under the hi-hats and click OK to copy it. To prevent confusion call it Fill 1. Now click on Edit and select Bar from the Edit menu.



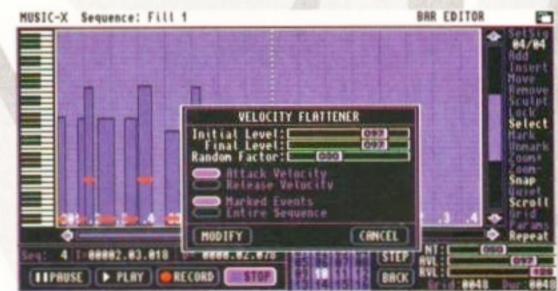
from the Edit
menu. Select channel 10 from the
MIDI channel block
at the bottom of
the screen and
choose Add->Notes
from the panel.
Bring up the Grid
and choose 16th
notes (value 048) or

eighth notes (value 096) depending on how manic you want the fill to be (16ths are shorter and provide percussion bursts). Click on OK to return to the editor.



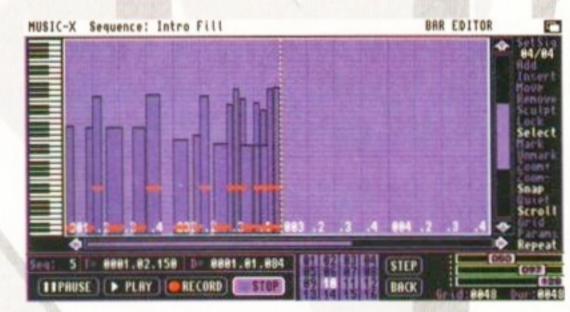
5 Click on a snare beat near the end of the second bar and press right Amiga and D to delete it. Repeat this for other tailend snare and kick beats. Add kick and snare notes by dragging the mouse up and

down to find sounds. Put some manic beats near the last beat of the second bar (click Play to hear the pattern). Add and delete notes until the fill sounds right.



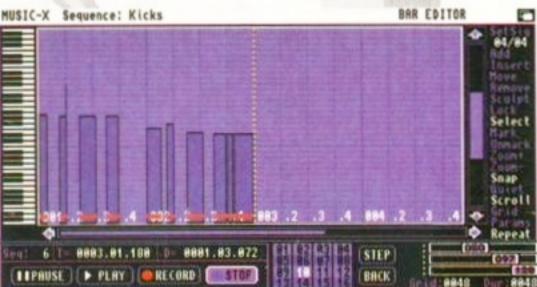
6 To make it sound less mechanical click on a snare beat earlier in the bar and note the AVL slider value. Click on Unmark, and on Select. Drag a box around the snare hits you added. In Flatten Velocity

(Modules menu), set initial and end values to the AVL you noted. Set the random factor to 30, make sure Marked Events is selected, click on OK. Exit and Store.



Sequence from the Option menu to make a copy of the fill in the next position on the list (it should be 005). Call it Intro Fill. Copy it into sequence 006, call the new copy Kicks. Click on Intro Fill in the list and on

Edit. With Select active, draw a box around the early snare beats (leave the fill snare beats at the end alone). Use right Amiga D to delete them. Exit and Store.



Choose the
Kicks sequence
(006) in the list and
click on Edit.
Repeat the process
you used to get rid
of the snare beats
on the Intro Fill,
but this time draw
a box around all of
the snare beats.
Use the right

Amiga key and D to delete these. Again, select Exit and Store. Now you have your basic rhythm patterns.

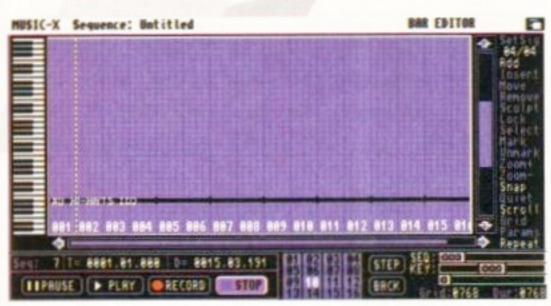
USING PATTERNS TO FORM A DRUM TRACK

Now that the drum patterns are sorted, you can chain them together to play a rhythm track.



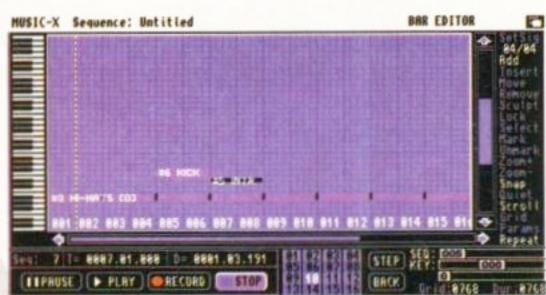
Select the next free sequence in the list (it should be 007) and click on Edit. Call up the grid window and set both values to whole notes (this is the oval shape on the far left). Click on Add and

then choose Play Sequence. Click on Zoom- a few times until you can see about 16 bars of space, otherwise the bars will be too big to keep track of.



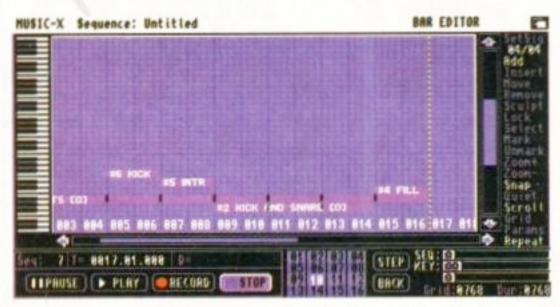
2 Move the pointer near to the left of the window and click the mouse button. A one-bar sequence should appear in black. Hit the Up Cursor key a few times until the sequence turns

into sequence #3 (the hi-hat pattern). If you miss, just use Cursor Down to step down the number. Because the Repeat was switched on in the drum pattern you can stretch the pattern out to loop it. Just hold down Shift and press cursor right 15 times to make the pattern play for 16 bars.



Move the mouse pointer to bar 005 and click to add another sequence (the previous one will turn pink). Use the Cursor Up key to make this sequence #6, then hold down the

Shift key and hit cursor right once to make it two bars long. Add another, make it sequence #5 then stretch it out one bar using Shift and right cursor.



Place a further sequence after that, make it #2 and stretch it out another five bars. Add yet another after this, make it #4 and stretch it out by one bar. Click and drag the vertical yellow line

(the end marker) until the end of the sequences. Click on Play to hear the drum pattern. Select Exit and Store and call the sequence Intro. Now you have a rhythm intro.

RECORDING A BASS LINE

Time to go back to the keyboard to record a bass sequence. If you want, just go to the edit window and add them with the mouse as detailed in section four of last month's tutorial.



Select a suitable bass sound on your synth and assign it to a channel in the multi-timbral setup (using any channel apart from 10). Click on all the green zeros down the

right of the sequence list until they read Off, (leaving just the metronome sequence). This will stop them playing as you record your bass pattern. Select the next free sequence in the list and get ready to play.



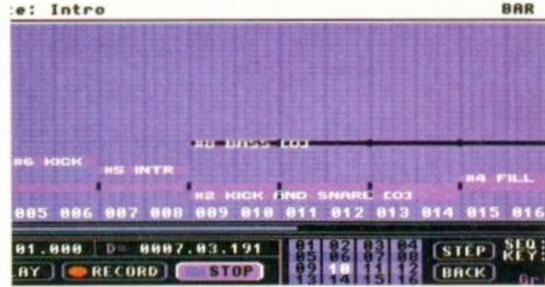
Rehearse a short bass line and when you are happy with it click on Record. When the Record window appears, either click on Go or play a key on the keyboard to start the metronome.

After a two-bar (eight beat) count-in, play in a short bass line (just a couple of bars will do, since it will be looped later). Then click on Store and name the sequence Bass.



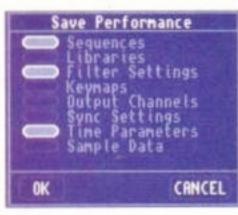
Click on Edit and call up the Event page from the Edit menu. Scroll down the list until you get to the End statement. Again, enter a number so that this is on the first beat of

the bar after the bass notes. So, if your last bass note is something like 0002.04.093, make the End statement have a time of 0003.01.000, then select Exit and Store.



Select the Intro
sequence from the list and click on Edit. Choose Bar from the Edit menu and make sure the Grid is set to Whole Notes and Add Play Sequence is selected. Add a

sequence at bar 009, make it sequence #8 and stretch it out to the end marker (the yellow line). Click on play to hear the intro of your first tune. Select Exit and Store and save the Performance with the name First Song.



To save a performance, you must first tell Music-X what kind of data to put in the file.

SAVING A PERFORMANCE

To save a performance, select Save Performance from the File menu in the Sequencer page. A window appears asking what kind of data you want to save. If you are using MIDI, all you need to have selected (highlighted in blue) is Sequences, Filter Settings, and Time Parameters. If you are using samples, make sure that Sequence Data, Time Parameters and Sample Data are selected. Hit OK to save. When all disk activity has finished, insert a blank disk into the internal drive and click on the DF0 button. If you are using an external or hard drive, click on the appropriate button. Enter a name and click on OK.

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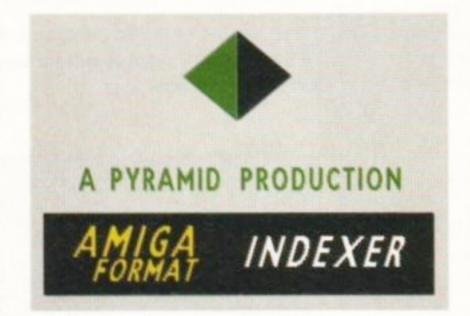
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| MUSIC | 17 188 18 223 19 136 28 167 | Harmoni - Midi | Sequencer ete Music System | 9 FEATURES |
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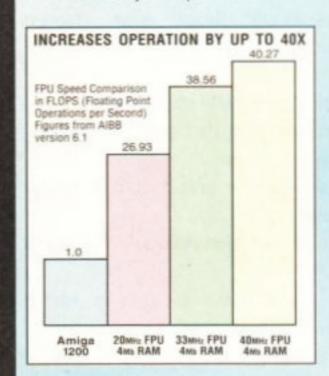
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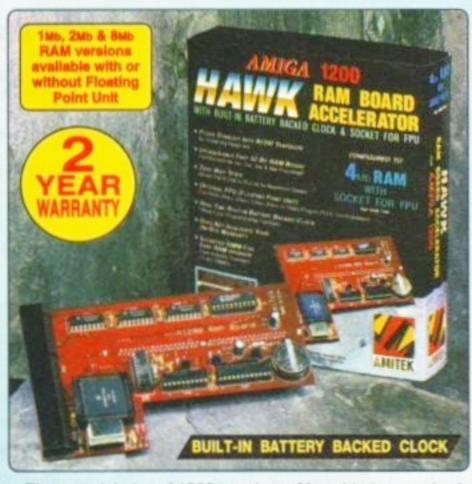
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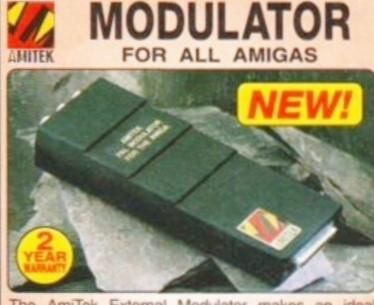
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If you want the Blitz Basic Coverdisk from Issue 52 turn to page 148 and order your back issue now!

To find out how to get the full Blitz Basic 2 package at a special AF discount price of £49.95 turn to page 153.

but not everyone knows the best way to go about it. Do you spend a small fortune on a professional *C* compiler and a ton of reference books, or do you trawl the Public Domain libraries for a rough and ready system with negligible documentation and not enough information to code a program with even simple graphics?

Perhaps the best way to start Amiga coding is to begin with a totally integrated development system, such as *Blitz Basic 2*.

Blitz combines ease of use with incredible speed and power. It comes with its own editor to enter and run your programs, and the language Our *Blitz Basic* tutorials were so popular, and so many of you asked for more advice about using Blitz, that we've decided to start all over again. In the first of a new series **Roy Ferguson** kicks off with an introduction to *Blitz Basic*.

itself is easily good enough to write anything from a commercial arcade game to a professional application program.

But what is *Blitz Basic*? As you might have guessed, *Blitz* is a version of the *Basic* programming language for the Amiga. *Blitz* works on any model of Amiga, and it doesn't require a hard drive. Programs can be typed or loaded into the editor (TED), and then compiled, debugged and executed using the pull-down menu options.

Blitz programs are compiled before use, which means the entire program is converted into machine code. This is what gives Blitz its immense speed – other languages may be interpreted line-by-line as the program is running, but Blitz converts everything at the beginning.

Because *Blitz* is based on the *Basic* language (it stands for *Beginners All-Purpose Symbolic Instruction Code*), all of the commands make at least some sense in English.

To put text on the screen you use the Print command, to jump to another piece of code you use Goto. Hardly taxing on the old memory cells. *Blitz* includes some extra commands specifically for making the most of the Amiga's hardware, so it's ideal for writing programs which feature heavy doses of graphics or sound. Hardware screen scrolling, multi-coloured sprites and blitter

objects, sound samples, joystick control – with a bit of effort, anyone can write a game with *Blitz*.

But why should you use *Blitz* when there are lots of other programming languages out there? If you are considering programming, you should ask yourself some questions about your chosen programming language:

- Is it fast enough to run arcade games?
- Is it possible to use the Amiga hardware directly with the language?
- Does the language include graphics and sound support as standard?
- Can it make full use of the Amiga's Intuition operating system?
- Will it produce standalone programs which don't need a copyright library to run?
- Does it include a compiler so I don't need to buy one at a later date?
- Does it support the new AGA chip set?
- Does the programming language come with all the necessary code libraries (known as the Commodore Include files)?
- Is it easy to learn?
- Does it come with a debugger to help you trap any mistakes?

One of the beauties of *Blitz Basic* is that it answers Yes to all of these questions. Another advantage is

BLITZ CODING

Blitz adds some rather new programming techniques to Basic, and rest assured we'll be taking a good look at them over the coming months. If you ever do any C programming, you'll come across the concept of data types and structures. For example, we could define a new datatype 'computertype' to be:

NEWTYPE .ComputerType name\$ processor priceEnd NEWTYPE

We can then assign each part of a variable separately, like this:

- a.ComputerType\name="A1200"
- a.ComputerType\processor=20
- a.ComputerType\price=299or even:
- a.ComputerType\name="A1200",20,299

This sort of data structure is very useful when you start using the more powerful operating system functions. Probably of more immediate use to games programmers are the special Blitz Mode commands. When running in Blitz Mode, the Amiga operating system is temporarily turned off which allows some incredible control over the video hardware. Using commands such as Slice, you can create any Amiga display you like, and then add a custom copperlist.

File: scroll.bb2 ; BLIIZ Basic 2 ; Smooth scrollind demo. n.b. this can induce motion sickness ; Start BLITZ mode BLIIZ ; Enable mouse input Mouse Un ; Define bitmap (four times as large as screen) in 8 colours Bitmap 0,640,512,3 ; Fill the first screen with circles for i=0 10 150 Circle Rnd (320-32)+16,Rnd(256-32)+16,Rnd(16),Rnd(16) Mexi ; Copy the single screens contents to the three other duplicate screens scroll 0,0,320,256,320,0 Scroll 0,0,640,256,0,256 ; Set up the custom graphics display Stice 0,44,320,256,\$fff8,3,8,8,640,640 ; The main loop — this repeals until the mouse button is pressed. Nile Joyb (0)=0 Ulait Show db,x,y Line:5 Column:5 Largest Mem (K):10205 Blizz comes with its own editor, TEO which highlights command words and allows indentation to provide more

structure in your programs. You can load programs into TED and work on them with pull-down menus.



The normal coding process involves entering your source code into TED either by typing it in, or loading it from disk. The *Blitz* compiler then converts it into machine code which can then be run on your Amiga directly.

that instead of remaining totally faithful to the rather old and sometimes criticised *Basic* language, *Blitz* has added a sprinkling of rather advanced features. Most modern implementations do away with line numbers, but *Blitz* goes one step further and allows special labels to be defined which appear in a separate column on the editor screen, which makes it incredibly easy to find your way around larger programs.

Blitz Basic also provides support for procedures (separate 'blocks' of code to add modularity to programs) and it adds variable typing. It's possible to package together variables in Blitz to construct new datatypes (nothing to do with Workbench 3's datatypes).

For example, if a name and address occurs commonly in your program, you can define a data structure which includes a name, an address and even a telephone number into one variable. Linked lists are also supported, and although they require a rather techie programming technique, they offer advanced programmers the option of writing programs which would previously only have been possible in *C*.

The windows and menus offered by the Amiga's Intuition system are fully supported by *Blitz* which means you can write programs that look and feel like proper Amiga applications.

Instead of digging around inside dozens of reference books, all of the features are available with a few *Blitz* commands. If speed is more your thing, you can drop into a special Blitz Mode which gives you complete control over the Amiga video hardware. You can open dual playfield displays, shift sprites around and create custom copper list displays.

Blitz Mode really comes into its own for writing demos and games when speed and total graphical control is essential. Blitz also allows

access to the Amiga's operating system libraries, which makes just about anything possible. Another big advantage is that the *Blitz* integral assembler means that any really speed-critical parts of your programs can be hand-coded.

Over the next few months, will be showing you how to best take advantage of *Blitz* when writing your programs.

IT'S A BUM DEAL

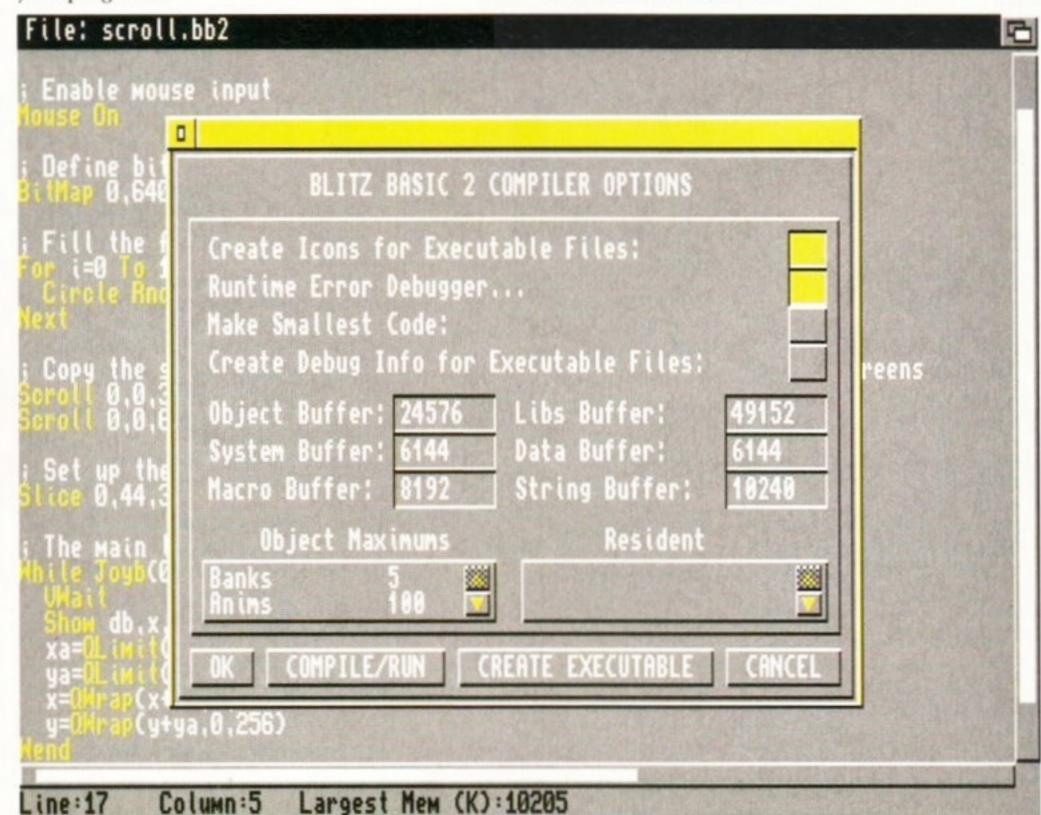
Acid Software want to take care of their registered users, and to this end produce a semi-regular newsletter. The latest version of the *Blitz User Magazine* (tastefully named BUM) is a twindisk collection of goodies that every *Blitz* user, and especially A1200 owners, will want to get their hands on.

For this version only the newsletter is supplied solely in floppy disk format, but the next edition (BUM7) will return to the slightly more readable paper variety. Some of the highlights buried away on the disks include: an updated TED which copes perfectly with AGA screen modes, a 3D object editor (a new 3D library is promised soon), an extremely useful Intuition gadget creation program, some pretty heavy AGA screenmode control routines (as used in SkidMarks no less), some CD³²-specific joypad reading programs, plenty of submissions from dedicated users and, to round off, a kludge to help AGA machines use the debugger properly.

All existing registered *Blitz* users should be hearing about this newsletter in the near future, but if you want more details on *Blitz Basic* and the *BUM* newsletters you should contact the following Acid Software UK address:
Acid Software Distribution Centre,
Unit 15 GuildHall Industrial Estate
Kirk Sandle
Doncaster DN3 1QR
Tel: 0302 890000

Whether you want to write utilities or games, this remarkable programming language has something to offer everyone who wants to program with their Amiga. And to make sure that you get the most out of these *Blitz* tutorials, we'll try to put the source code on an *Amiga Format* Coverdisk whenever possible.

Next month we'll get started in earnest with programming with *Blitz Basic*, but if there are any topics you particularly want covered don't hesitate to write and let us know.



The Blitz Basic Compiler can be completely controlled without leaving the editor (TED), which all makes for a very easy-to-use programming environment. For example, you can get Blitz to compile all of your source code directly into stand-alone programs complete with icons.

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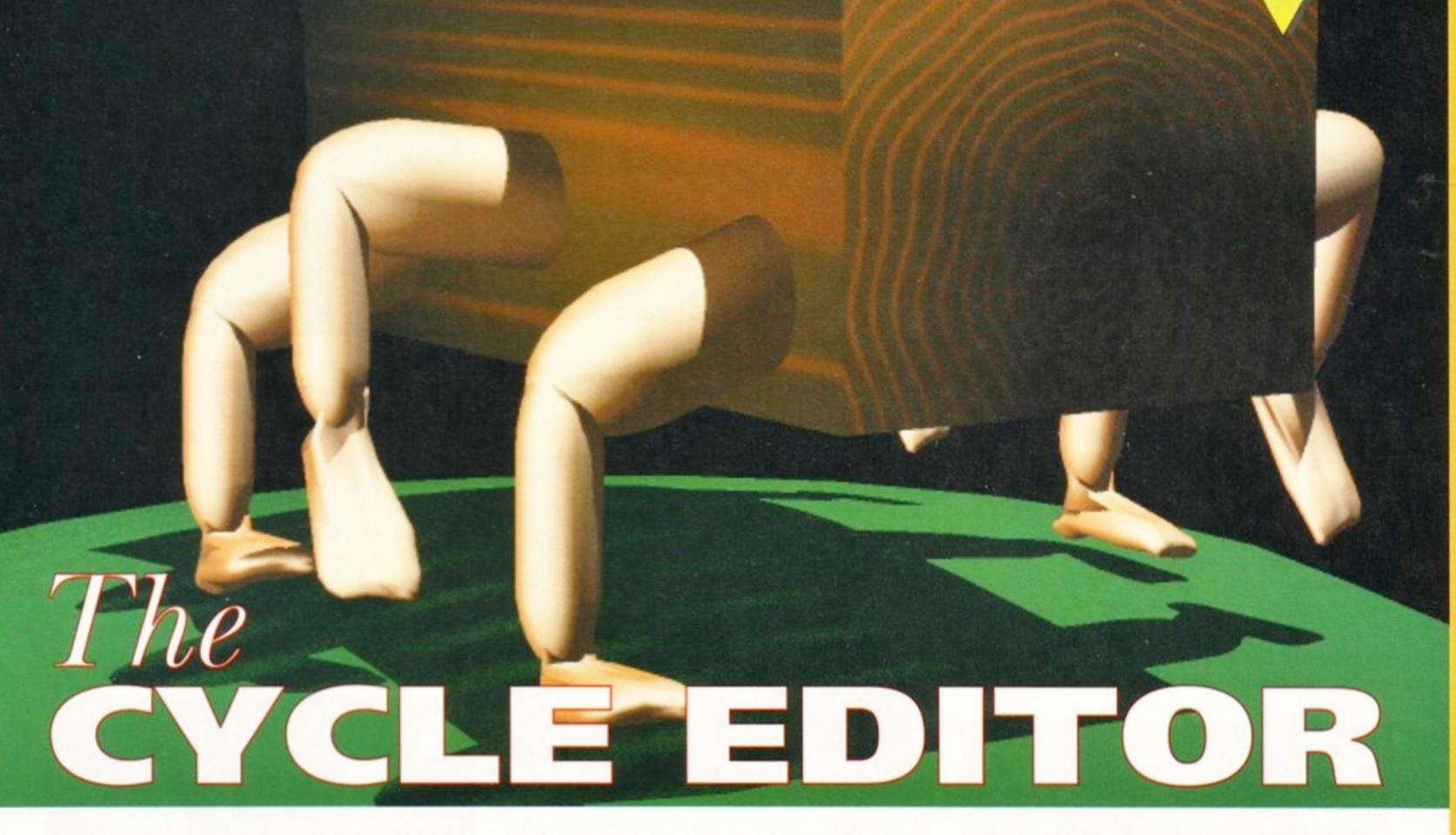
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Inspired by Terry Pratchett's *Discworld* character, this walking tree trunk has three pairs of legs. Each operates logically according to a normal walk cycle but they are out of sync with each other by half a cycle. This produces a centipede-like walk. To achieve the more complex animal-like movement, the cycles would need to be edited at the same time to get the correct timing. *The Animator's Workbook* by Tony White (Phaidon, £14.95) is an excellent guide to these principles.

GETTING TO GRIPS WITH IMAGINE

Part



Brian Larkman shows you how to really get moving by bringing your *Imagine* objects to life with the Cycle Editor.



MOVING OBJECTS OFTEN express much of their character through their style of motion or body language. Usually this is the relative motion of an object, such as the way in which our body flexes as we walk, or the order of movement of a horse's legs as it canters or gallops, the different motions of branches or palm fronds in a breeze or hurricane.

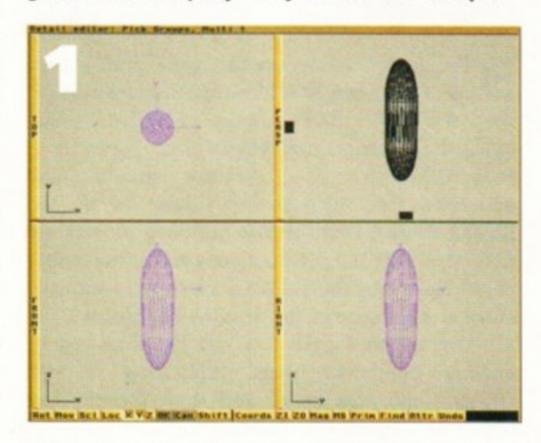
These movements can convey as much about the underlying nature of an object as any amount of careful modelling and texture mapping. You know from previous tutorials that absolute motion along a path is quite easy to create in *Imagine* once you have the knack, but relative motions like the walk cycle would be stunningly difficult to create using these methods. The Cycle Editor is designed for just this sort of task.

The basic principle of the Cycle Editor is to provide simple stick figure versions of the objects that you want to animate. The parts or segments that fit together to make up objects are assigned to the appropriate sticks, and within the Editor it is these sticks that are twisted and pivoted to create the motions that will later be transferred to the actual objects.

For most objects this technique is perfectly adequate, but some complex structures need very precise alignment of the segments relative to each other during the cycle. This is best achieved in the Detail Editor so several cycle editing tools are provided there as well.

TUTORIAL

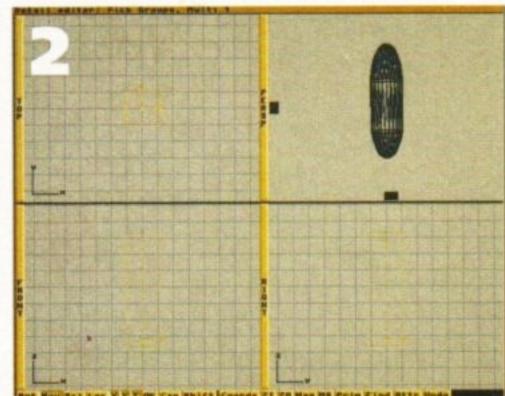
The most obvious use of any Cycle Editor is the normal walk cycle of humans or animals. To illustrate this I have chosen to animate a rough version of the walking trunk or treasure chest from Terry Pratchett's *Discworld* novels. It is coincidence that the bizarre nature of this creature's walk cycle disguises the inadequacy of my animation technique!



Tirst of all, you need to build the objects in *Imagine*'s Detail Editor. Each leg of the creature is made up of just three segments: the upper leg, the lower leg, and the foot. To keep things easy, the two leg bits are the same limb object resized, but the foot is modelled separately.

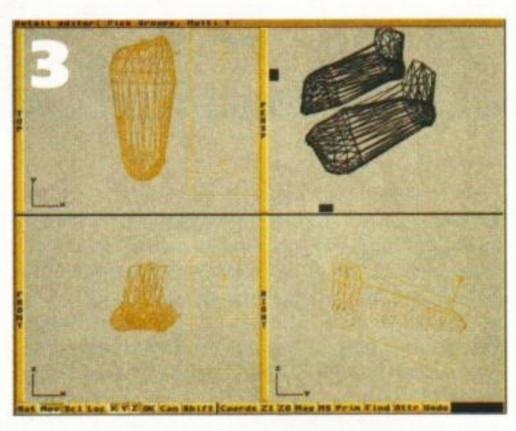
Continued overleaf

In order to create the leg object we'll use Functions/Add/Primitive/Sphere keeping the default parameters. Use Drag Points to treble the height of the sphere into a capsule shape, then scale the X and Y axes to produce the elongated egg shape shown in Figure Two.



To ensure that all objects move according to their assigned motion characteristics, the segments must be made in the Object Editor with their axes set up in a particular way. Use the Shift key with Scale, Move and Rotate to position the Axis origin near the bottom of the limb, and the Z Axis pointing back up the limb with its end near the top.

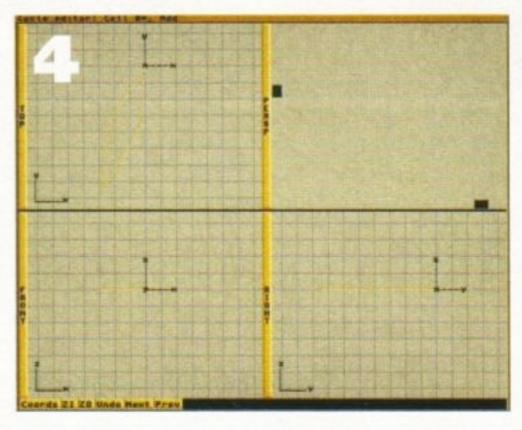
The two ends of the Z Axis are the points by which each limb is joined to the others and around which they pivot. If you imagine that each rounded end is like a ball joint, the ends of the Z Axis should be at the centre of the balls. This makes the two parts overlap and pivot convincingly. Use Attributes to colour the limb. (I used a slightly shiny pink shade.)



The foot is based on the same limb object, but it has been ROTated, SCaLed down along the Y Axis and then modelled using Mode/DragPoints and Magnetism. Again it is convenient that the creature should have deformed feet, so you don't have to be too precise. Notice that the axis has been moved and rotated so that the Z Direction is along the length of the foot, and the Z End is rotated up into the ankle at the centre of the imagined ball joint.

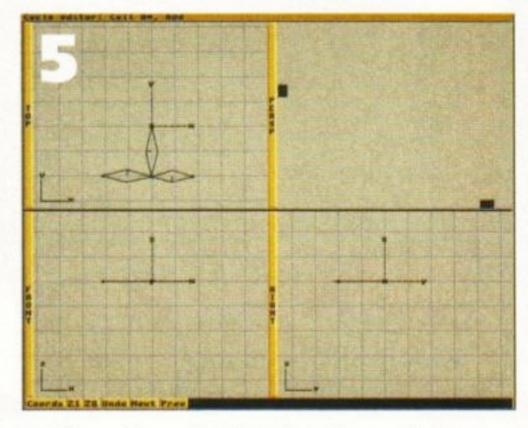
The left and right feet can be produced by making one, and then duplicating it with Object/Copy and Paste, and then flipping the copy with Object/Transformation/Scale using X=-1, Y=1, and Z=1.

For the final scene you will also need a simple rectangular object. I used a wood Texture but if you want your object to look more like the *Discworld* character you may want to model your own complete treasure chest with domed lid, wooden boards, brass bits, locks, hinges and rivets.

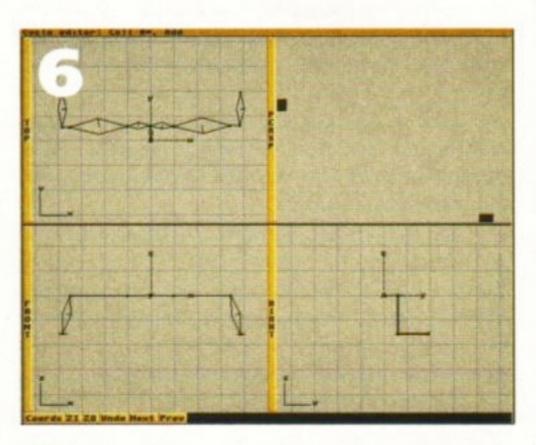


The cycle is constructed in the Cycle Editor. The quad-view layout is much like the Detail or Stage Editors until you examine the menus which have a whole new set of commands, some of which are described here.

In the Cycle Editor, drag a diamond-shaped link from the origin point at the centre of the Top View. Each segment of an animated object is replaced by one of these sticks or links that represents the Z Axis of that segment. As a guide, one side of the diamond has a small mark to distinguish it.

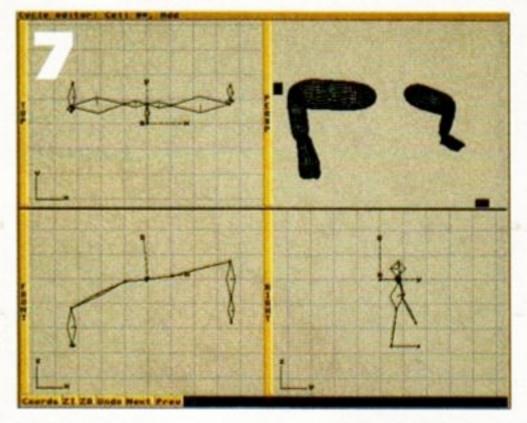


From the end of this first diamond, drag two further links. In terms of an object hierarchy, these are children of the first link. Using a hierarchy enables an animator to move linked objects easily. For example, rotating an elbow moves the forearm, wrist, hand, and fingers with it instead of the animator having to move each part separately. Similarly, rotating a wrist will only move the hand and fingers, while bending a finger only moves that finger.



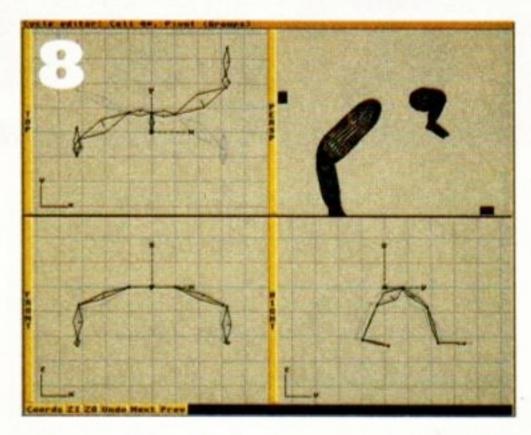
So far what you have created are Null Links which have no objects assigned to them. They are just there to aid with manipulating the limbs and will not be visible when you render. Now we need to get walking! Add more links, in the form shown, to each of the child links. Use all three of

the views to get the correct orientations and matching sizes. You may need to delete mistakes, or undo actions, or even start a new object. Notice that you start in Add Mode (shown on the menu bar feedback). Delete and Move Modes are available on the Mode menu. At this stage try to avoid using Pivot or Twist and do not use Assign. Save the object as LegsAtRest.



The previous pose was the at-rest position and defines the size and position of the limbs. From now on you should not use the Move Mode because this changes the relative size of the segment moved (only one end of the Z Axis is moved so it is stretched.) Using only Pivot and Twist Modes change the pose to the one shown.

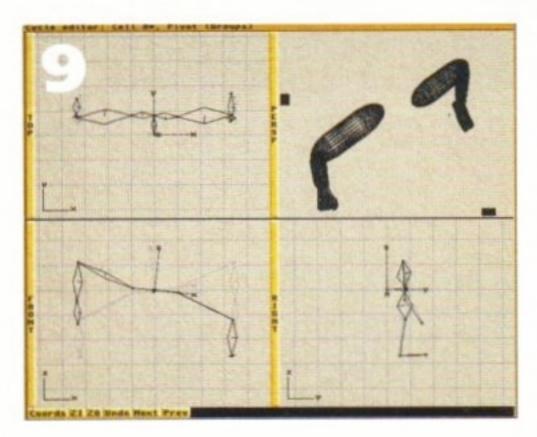
The pose is based on the positions of my arms, as if crawling on all fours, in mid-stride. Try the pose yourself – it helps! Notice that the foot moving forward is drooping in the Right View and in the Front View the whole object has been tilted. Now pivot the lower leg and foot upright again.



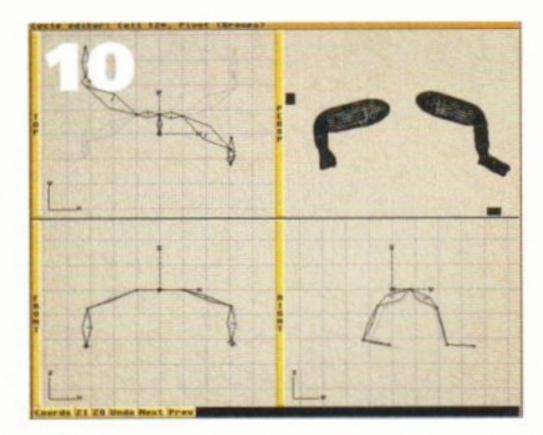
This walk cycle is going to operate over 16 cells or frames. You don't have to set up new poses for every frame, though, because the Cycle Editor lets you position Key Frames. We shall make Keys at the extremes of the cycle.

Use Cell/GoTo and type 4 to move to cell 4. The previous Key Pose (cell 0) is copied across. Pivot and Twist the links to match the pose in my screen shot. Notice that the Null Links are horizontal again, that the leading foot is flat and that the trailing foot is just lifting for the push forward. Use Cell/MakeKey to make this a Key Cell (note the * next to the cell number on the menu bar denoting a Key Cell). Save.

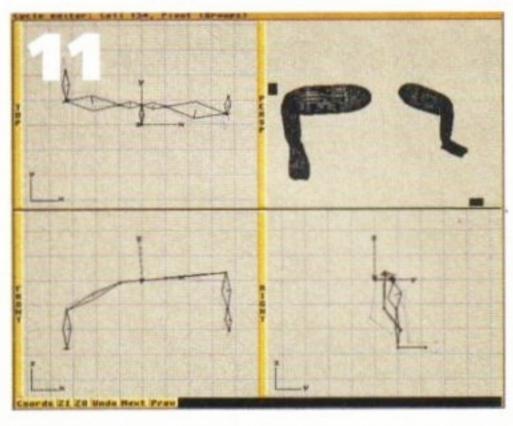
Use Cell/GoTo and type 8 to move to cell 8. We are now half way through the cycle so the pose should be a mirror image of that in cell 0. Notice that (as in the previous illustration) there is a pale grey onion skin image of the previous pose. This is to help with matching poses. In this case GoTo the first pose then GoTo cell 8. Creating a



mirror version will now be much easier. Notice that in my screenshot, the two poses match in the Side View, but the Null Links are slightly tilted again, opposite to those in cell 0. Use Cell/MakeKey to make this a Key Cell. Save.

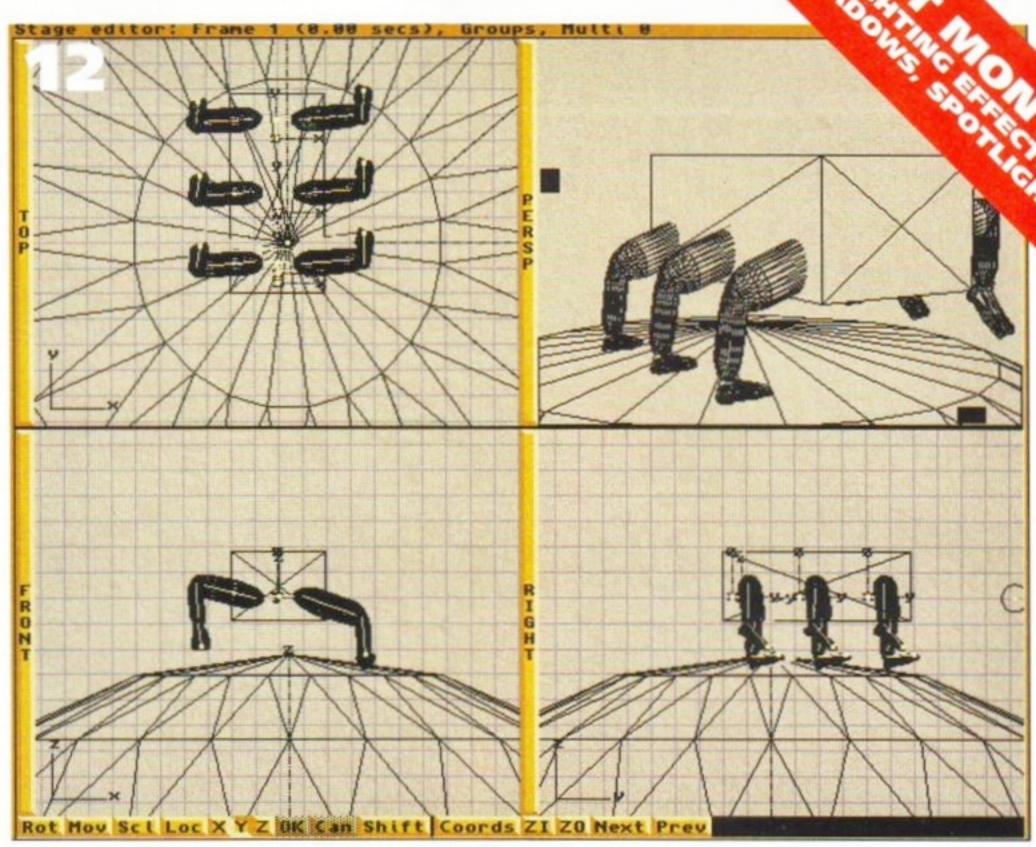


Cell/GoTo cell 12. Once again this pose should be a mirror image, this time of that in cell 4. And again to help with matching poses GoTo cell 4 then GoTo cell 12. Pivot and Twist to reflect cell 4. If you get into a mess, notice the position of the mark in each diamond link in the tutorial illustration. Use Cell/MakeKey to make this a Key Cell. Save.



The last Key Frame is slightly more complicated to describe, though easier to set up. The first and last frames are always Key Frames. If the last frame was the same as the first there would be a pause in the cycle. The easiest way to overcome this is to add an extra frame and then delete it afterwards.

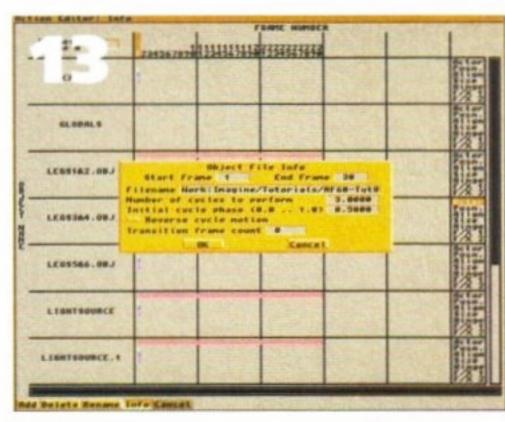
GoTo one frame beyond the number you require, in this case to frame 16. Use Cell/Copy From and choose frame 0. Use Cell/Prev to go to cell 15, make it a Key Frame. Go to cell 16 and use Cell/Remove. Now the last frame is cell 15 giving a cycle of 16 frames (0-15). Save. If you want to see what the cycle looks like, adjust the Perspective View for a good viewing angle and use



Animate/Make then Play Loop. If you see any obvious errors try using the Step control to see which frame is at fault and go back to adjust it.

The next step is to set up a full scene in the Stage Editor. As the original trunk had 12 or 14 pairs of legs this might seem an almost impossible task, but in *Imagine* things are rarely as bad as you think. For the insect-like walk of this trunk creature, you can place as many pairs of legs as you like, and alter their walk cycle with the Action Editor.

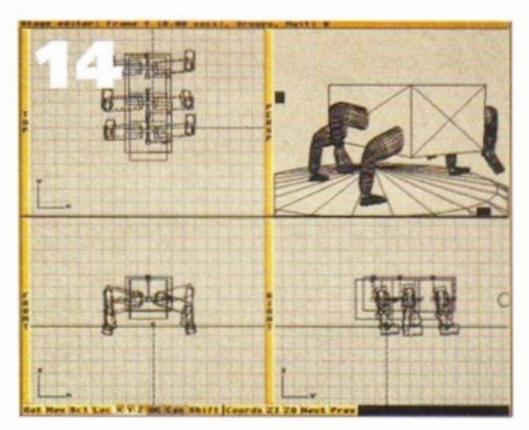
In the Stage Editor, Object/Load a pair of legs and move them slightly along their axis of movement. Object/Load a second and third pair, moving them to match those shown in this illustration. Object/Load the trunk object you made (preferably sized correctly in advance in the Detail Editor). Object/Load a ground for them to walk on (I have used a large sphere for effect). Project/Save Changes.



Obviously all pairs of legs are in the same position in the cycle – not very practical! Move to the Action Editor. Change the Highest Frame number to a reasonable amount – in this case 30 frames. Click on the first Legs Object Actor timeline (reddish colour blob) and the Object File Info requester will appear. Make the End Frame equal your total number of frames,

then make the Number Of Cycles To Perform equal the number you require. (In this case three). This number does not have to exactly divide into the number of frames to make a looping animation. *Imagine* adjusts the objects and cycles to match your request. Easy!)

The Initial Cycle Phase can be set to suit the leg synchronisation that you want. In this example I have left the front and back pairs the same and the middle pair 0.5 (half a cycle) out of sync. If you have five pairs of legs you could have alternate pairs set to 0.5 or the first at 0.0, the second at 0.2, the third at 0.4, the fourth at 0.6 and the fifth at 0.8 to get a centipede-like or Mexican Wave effect.



When you return to frame one in the Stage Editor (after saving changes), the legs will be adjusted accordingly. If you adjust the camera for a good view and add lights (make sure they have a full timeline in Action), you can try a trial animation – Animation/Make. If that is good try a full render. Mine look OK, but the movement of the joints looks rather mechanical because the flesh does not flex. The only way to do this is to use the morphing technique described in AF57. For a complex walk cycle like this, morphing is difficult because you cannot see the changes in the interactive way that the Cycle Editor provides. What is needed is animated Spline editing. Maybe we'll see that in Imagine 4!



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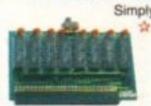
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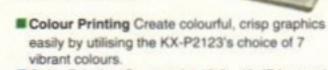
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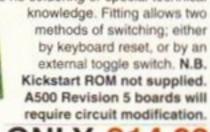
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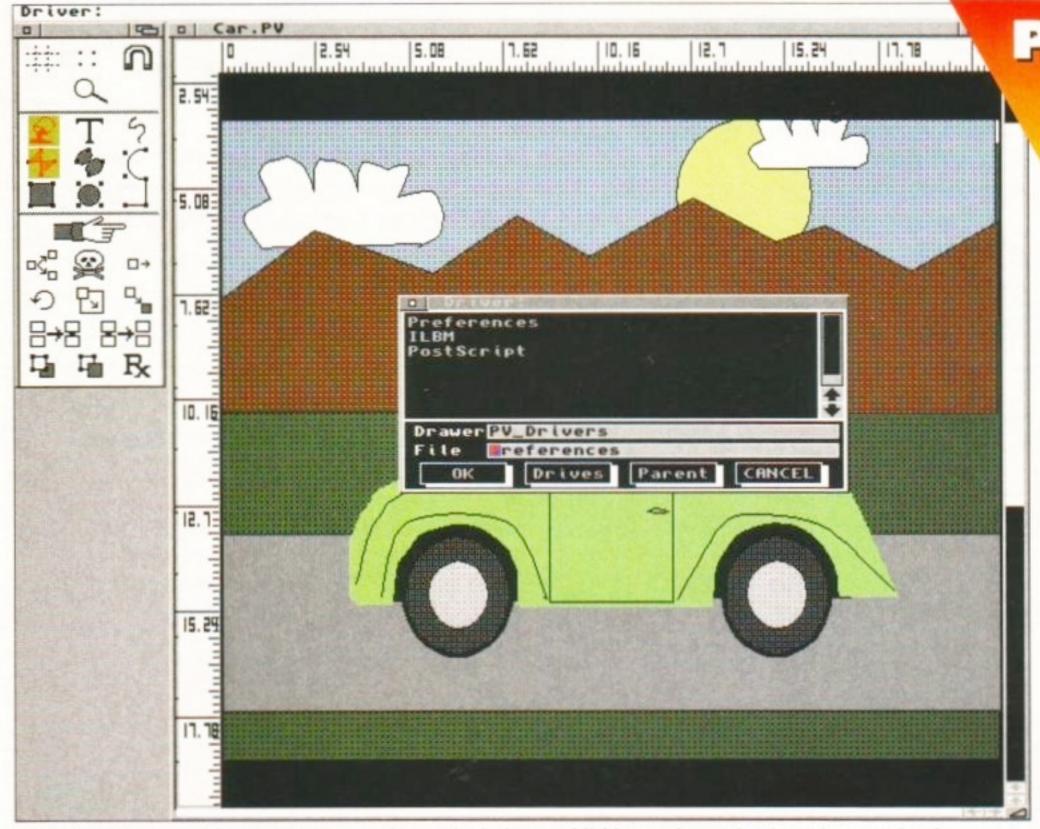
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ProVector is best used for creating images for use in desktop publishing packages, but how do you print them out to make sure they look like you want them to? Find out below.

ast month we took a look at exporting a *ProVector* drawing as a bitmap so that it could be used in a paint package. Since then we've been deluged with enquiries about how to print out *ProVector* drawings.

It's a similar process to the one described last month, and the only confusing element is that the ProVector program uses the term 'plot' for print.

ProVector has a system of drivers to control the form and destination of an output file, so if you select the ILBM driver, as we did last month, an IFF file is directed to a destination specified with a file requester. If you select the PostScript or Preferences driver, the picture is interpreted for printing and sent to the printer port.

But how does *ProVector* know which printer port you are using? That's simple: it uses the printer set-up you have specified under your preferences. If you don't know how to do this, refer to your Amiga Workbench manual, or see the Workbench tutorial in Issue 59 of *Amiga Format*.

Assuming that your preferences are all set and ready to go, this is how we print in *ProVector*.

- **1** Open the picture you wish to print. I'm using the car picture we created in AF58.
- 2 Select either Full Plot or Partial Plot from the Project menu. Full Plot prints out the whole pic-

of printers, or plotters which use Hewlett
Packards' printer language will find that
ProVector 3 (available shortly) has an HPGL
driver. This was omitted from the ProVector
Coverdisk for reasons of space, and because
such printers are very uncommon for the Amiga.

ture, including the parts of the page area that you haven't used to draw on. Partial Plot only prints what is visible on screen. You can use the magnifying tool to zoom in on the bit you want, and use Partial Plot to exclude the rest of the picture.

3 When the Driver window appears, select the printer you require. Preferences is OK for most users. If you have a PostScript printer refer to the box below. Selecting ILBM outputs an IFF file

Marcus Dyson explains how to print out your *ProVector* drawings.

4A window will appear where you can make some choices about your print-out. These include:

B&W: If your printer is a mono device, this will be highlighted.

Colour: If your printer is mono, this will be greyed out. If you have a colour printer you can choose either a colour or mono print-out.

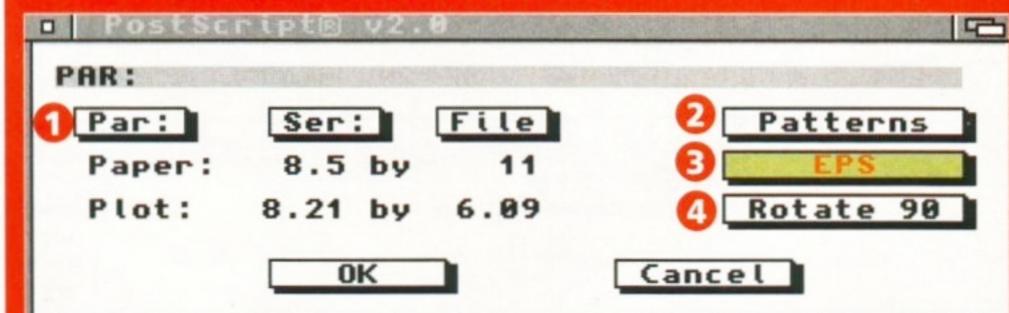
Dither: This gives a grey scale image on a mono printer, or extends the palette of a colour printer by mixing the colours of the ribbons or inkjets.

Patterns: If this gadget is selected, the structured pattern fills you have used in your drawing will be rendered by the printer. This can take an awful lot of time and memory, so make sure that it's not selected if you only want to print rough page proofs.

Advance: When this gadget is selected, your printer will form feed a page after completing the print-out. Some printers do this automatically

5 Clicking on OK starts the print-out, and assuming you've selected all the correct settings, you should get an excellent hard copy of your drawing of the car.





If you select the PostScript option, you'll be faced with the above screen. Here's what to do.

- Par: Ser: and File: These gadgets control the destination of the PostScript output. You can direct it to a PostScript printer connected to either the parallel or serial ports, or just write the PostScript file to disk.
- 2 Patterns: With this option selected, the structured fill patterns are converted to PostScript information and printed. This takes a lot of time and memory, so don't use it for printing out rough page proofs, unless you've got a lot of time to waste.
- BEPS: When this is selected, the file is written as an Encapsulated PostScript File, and may be imported into many DTP or word publishing programs, such as *Final Writer*. If the gadget is not selected, *ProVector* writes files in the DR2D format, used by Amiga DTP packages such as *PageStream*. When printing directly to a PostScript printer, if the EPS gadget is selected, a Partial Plot will not be automatically scaled to fill the page.

 Botate 90: This is for importing landscape pic-
- A Rotate 90: This is for importing landscape pictures. Sometimes the picture is displayed on its side. Selecting the Rotate 90 gadget before generating the EPS solves this problem.

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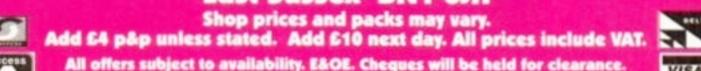
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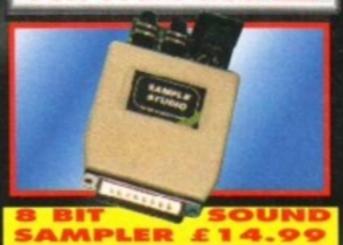
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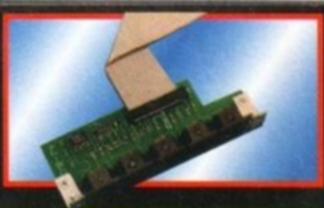
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INTERNET: THE WORLD SERVICE

This month, Richard Baguley investigates the Internet, the biggest network in the world.

f you thought that the amateur networks we covered in last month's comms pages looked big and confusing, then this month, I've got something that is really going to blow your socks off – the Internet, the biggest network in the world.

In fact, the Internet is so big that nobody really knows how big it is. At the last count, there were in the region of 2,200,000 computers connected to the system, and each of these could have several hundred users.

The Internet began life in the late Sixties as a military network called ARPAnet, but the United States Defence Department handed the entire thing over to a number of American universities in the early Seventies.

Since then, the network has grown and spread across the world to include companies, television stations and magazines. Most of the computers (which are also called sites) on the network are connected together by leased telephone lines, so all that you need to do is to call one site and you can then connect to all of the others.

But the Internet is not just about computers. In fact it's a treasure chest of useful (and not so useful) information where you can find out almost anything about virtually everything. Once you're linked in to the Internet, you can access any other computer that allows public access on the network whether it's just down the road or on the other side of the world.

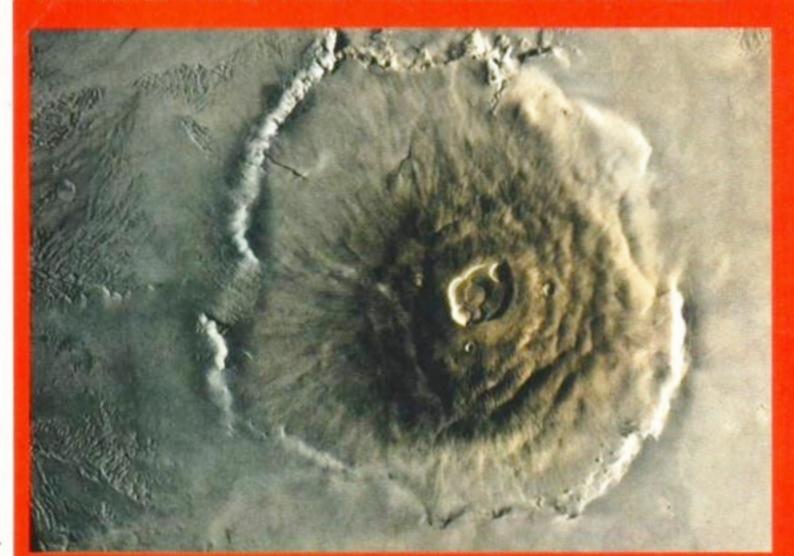
The only bill you have to pay to access machines all over the world is the phone bill to connect your machine into the Internet, which could just be a local call away.

You can not only get hold of files, but you can also get take part in discussions on a huge range of subjects. This section of the Internet is called Usenet, and it's divided up into around 9,000 newsgroups (similar to Fidonet Echoes) on subjects as diverse as human sexuality and surfing. There are several dedicated Amiga newsgroups, on the Internet, and it's not unusual to see impor-



The US library of Congress has put its Dead Sea Scrolls exhibition on line. You can get the images from FTP.LOC.GOV.

WHERE ARE THE INTERESTING FILES?



This isn't a Vista render, but a satellite image of Olympus Mons on Mars, as taken by one of NASA's satellites. You can find it on EXPLORER.ARC.NASA.GOV.

There is absolutely no way I could bring you a comprehensive list of all of the Internet sites which hold useful or interesting files, but here are a few that you might find worth investigating. All of them accept an anonymous File Transfer Program (FTP), so you can log on to them and download files by using the name Anonymous and sending your address as a password.

FTP.DOC.IC.AC.UK

This site is one of many which are part of a network known as Aminet, which holds software for the Amiga. There are many hundreds of megabytes of files for the Amiga user, ranging from utility programs to files which tell you how to build your own SCSI interface.

EXPLORER.ARC.NASA.GOV

This site holds a profusion of scanned photographs from various NASA missions in both GIF and JPEG format. It also holds several hundred text files on spacey subjects such as forthcoming missions, current status of deep-space craft and many other subjects.

HANDICAP.SHEL.ISC-BR.COM

A wide selection of files on various aspects of disabilities, ranging from Autism to Work And The Handicapped.

FTP.SPIES.COM

There are all manner of peculiar things here, including information on how to build your own UFO, the truth(?) about the alien cover-up conspiracy and a collection of Whitehouse press releases.

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If you need to find a certain file, ask the program that knows its way around the Internet. Ask Archie.

tant developers and Commodore employees popping up every now and then.

As with Fidonet, you can set up your own mail address and use this for sending and receiving messages from anybody else who has an Internet address. This not only covers several million fellow Amiga users, but many companies (such as Soft-Logik and ASDG) have Internet addresses, so you can obtain technical support from them.

The fact that the Internet is so big can make it difficult to find your way around and it can be a time-consuming business finding the subject you're interested in. Fortunately, there are ways and means of getting round this, the most important of which is *Archie*. *Archie* is a very nice program which does all of the searching for you.

To use Archie you just have to call it up (the UK Archie server is at ARCHIE.DOC.IC.UK.AC), supply certain keywords (such as Amiga, Dante or Bondage) and Archie will search through the comprehensive lists it holds for all file names containing these key words. Archie will then tell you where the programs are held, and some versions will even get the program for you.

You don't have to be connected while this is going on, so you can call *Archie*, set it searching and call back later. You can even ask *Archie* to do a search by sending a message to it.

GET NETTED

Getting connected to the Internet is not, unfortunately, as simple as calling a Bulletin Board. Some on-line services (such as CiX, 081-390 8446) allow you limited Internet access, but if you want to get really involved with the Internet, you'll need to see about setting up your own site and find out about getting your own Internet address.

Companies such as Demon Internet
Services (081-349 0063) can set up an Internet
address for you and supply you with all of the
requisite software. This software is not particularly elegant or easy to use but it does the job.
Demon charge £12.50 to set up the address and
£10 a month for unlimited access, so you can
stay on line for as long as your telephone bill
will stand.

If you are a student at a university or a polytechnic, you probably already have access to the Internet, because most educational establishments are linked to it.

Check all the details with your network supervisor, but you should be able to get hold of files, copy them on to PC disks and then read them on your Amiga using CrossDos, which is covered in this month's Workbench tutorial on page 160.

GETTING HOLD OF USENET MESSAGES

A major part of the Internet is Usenet, which contains many thousands of newsgroups on subjects ranging from Amigas to Zoology. Here are a few of the more useful and, erm, interesting ones.

COMP.SYS.AMIGA#?

The Amiga newsgroups are among the most popular on Usenet, and you'll find prominent Amiga people such as *Emplant* developer Jim Drew or PD programmer Nico Francois getting involved in the discussions and arguments. There are several different newsgroups on different aspects of Amiga use such as COMP.SYS.AMIGA.HARDWARE, which is concerned with, surprise, surprise, Amiga hardware There are also various other newsgroups dedicated to the Amiga such as COMP.SYS.AMIGA.GAMES, and COMP.SYS.AMIGA.MULTIMEDIA.

```
四日
Tin News Reader
Tue, 26 Apr 1994 14:18:37
                                                            comp.sys.amiga.cd32
                                                                                                                       Thread
                                                                                                                                            3 of
                                            <u> Liberation + Labyrinth feature</u>
                                                                                                                       No responses
zap@indic.se Jonas Petersson at Indic Computerised Air Quality Surveillance
Do you wish you could save more games in Labyrinth without using up all your precious non volatile RAM? If you have Liberation as well, this is how you
can do it:
                1) Start Liberation and save a game to the Ram_Reset disk.
2) When you remove your Liberation disk the CD-32 will reboot from the recoverable Ram_Reset disk and display some information.
Do _NOT_ press the red button!
3) Insert your Labyrinth CD and press the reset button on the top of the CD-32.
                4) In Labyrinth, go to the save/load menu and notice that the option to save to disk is now enabled! You will see the device
                 name RRD: (for Recoverable RamDisk) at the bottom.
Neat isn't it? This disk will survive until you power your CD-32 off unless you do something disastrous (or press the red button at the wrong time). If you have for instance the 100 Games CD you can also save adventure setups etc to this disk (and explore how Labyrinth and
 Liberation actually store their saved games...).
      <n>=set current to n, TAB=next unread, /=search pattern, ^K)ill/select,
a)uthor search, B)ody search, c)atchup, f)ollowup, K=mark read,
l=pipe, m)ail, o=print, q)uit, r)eply mail, s)ave, t)ag, w=post
```

Looking for hints or tips for CD32 games? Check out REC.GAMES.VIDEO.CD32 or COMP.SYS.AMIGA.CD32.

REC.GAMES.VIDEO.CD32

This is one of the newer newsgroups, and it's dedicated to the CD³². A wide range of subjects are covered, including new releases, charts, reviews and tips. There are also the usual arguments about CD³² versus 3DO or Sony PS-X.

ALT.SWEDISH.CHEF.BORK.BORK.BORK

Just to prove that not all the newsgroups are about computer-type things, this one is dedicated to talk about the Swedish chef, a character from the *Muppet Show*.

```
Tin News Reader

Hon, 25 Apr 1994 18:54:80alt.swedish.chef.bork.bork.bork Thread 1 of 3
Lines 11 Respno 1 of 1
IZZY2MJ@MVS.OAC.UCLA.EDU Leo Gonzalez at UCLA Microcomputer Support Office

In article <01HBKESFOKR68MM?YU@RIDER.BITNET>,
CHIKLINSKI@RIDER.BITNET writes:

>give me info...please

------
He ees ze best moopet oon ze Moopet Shoo. He likes to poot ze chickies in ze pot und say, "Bork, Bork, Bork!" und "Hurgie Furg!"

Bork, Bork, Bork!

-Leo
```

You can participate in meaningful discussions about life on Usenet, or you can blather about The Muppet Show.

ALT.COWS.MOO.MOO.MOO

For those of you who harbour a compulsive interest in our bovine chums, this newsgroup is dedicated totally to the subject of cows. Here you can hold discussions on all sorts of cow-related topics and find the answer to deep and meaningful questions such as 'If a Cow moos in a field and nobody hears it, does it make a sound?'. The ethics of eating meat and wearing leather are also covered as well as the thrilling topic of cows versus sheep.

```
Tin News Reader

Tue, 26 Apr 1994 18:58:47 alt.cows.moo.moo.moo Thread 2 of 4
Lines 18
DPGP0570MUSICA.MCGILL.CA

I like cows! Cows are nice! Barney told me so. He likes cows too!
Barney thinks cows are veeeery special and that they deserve more attention! Barney took us to Farmer John's barn where there were many cows! Barney also sang us a song about cows! He aaaaallll sang along with our Purple friend, and so did Farmer John! :-)

Michael "Mikie" Crawford
```

As you can see the quality of the discussions about cows add a new dimension to the art of debating.

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| Amiga to 1084S/8833 | |
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| A600 1 Meg Ram Exp£29.0 | 0 |

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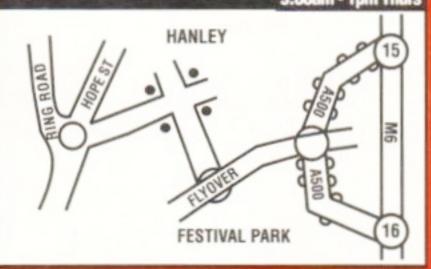
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A WORD FROM THE ED



TAKING OVER A new magazine is never an easy task. And taking over a beast like Amiga Format is as un-easy as it gets.

Following in the footsteps of Damien Noonan and Marcus Dyson may not seem like a good idea: between them, they've taken AF to the giddy heights where a single issue can sell over 142,000 copies. That's more than Empire, What Car?, NME, The Face, and Time Out.

Overall, Amiga Format is the 68th biggest-selling title. Okay, 68th may not sound that great, but the other 67 mags include TV listings mags like the Radio Times; all the women's weeklies; big fortnightlies like Smash Hits; and odd creatures like Viz. So AF holds its own against some pretty stiff competition – and it's still the biggest-selling computer title, ahead of Computer Shopper, PCW and all the games mags.

Hopefully, this illustrates just how big the Amiga market is. If we can sell 142,000 copies (and reach around 350,000 Amiga owners) every month, this market - despite what industry pundits may suggest is still extremely healthy. While consoles (and console mags) come and go with alarming rapidity, the Amiga goes from strength to strength. The CD³² and A1200 are selling well, the A1200 CD drive is imminent, and Commodore are well under way with their next-generation RISC machine.

Maybe taking over AF isn't such a bad idea after all...

Letters

New editor **Steve Jarratt** dips into the bulging *Amiga Format* postbag, and disappears into the back room with Marcus Dyson's old paper knife. Send your letters to: Letters To The Editor, *Amiga Format*, 30 Monmouth Street, Bath, Avon BA1 2BW.

RIGHT-PROTECTED DISCS

It is probably true that CD software can be copied from either CD to CD, or CD to floppy disk but what people fail to realise is that most of the pirates in the world are your average people who get copies off friends.

These people are able to copy software because of the existence of writable materials such as floppy disks and copying programs. But unlike floppy disks, blank CDs are not available in your general computer shop, and your average person is not likely to be able to afford the hi-tech equipment necessary for copying.

If they want them, people will be able to get hold of copies but the average person isn't going to be able to do the copying.

Why can't people show a bit more optimism in new formats, such as the CD³²? One reason that the A1200 sold so well was that it had a floppy drive. I hope you will print this to show potential Amiga owners that there is nothing to be scared of as far as new computer ideas go.

Michael Newsham, Ipswich, Suffolk

Don't underestimate the power of the pirates: people didn't think you'd be able to copy cartridges, but any Super Nintendo or Mega Drive owner can buy a unit from Hong Kong that dumps cart data on to 3.5-inch floppies. I've no doubt that as soon as cheap rewriteable

CDs become available, affordable copying devices won't be far behind. And don't be fooled into thinking there are degrees of piracy: it's illegal whether you knowingly get a disk of games off your mate or run a professional copying racket. It's wrong – don't even think about it.

DRIVE A HARD BARGAIN



A fistful of A1200 hard drives. Go on Martin's dad, make his day.

When our house was burgled I lost my A500. I was so upset about it that I couldn't sleep for weeks on end!

But I used the insurance money to buy an A1200 Desktop Dynamite pack and I am now considering buying myself a hard drive. But my Dad says, no, they are a waste of money. Please could you try to convince him?

Martin Seymour, Worksop, Notts

Dear Martin's Dad, imagine you had a Ferrari with a fuel tank that carried about a gallon of petrol, so you had to stop and fill up every five minutes. You'd want to buy a bigger tank wouldn't you? Now stop being a tightwad and let rip with the readies, Seymour senior.

LET'S GET SERIOUS

My colleagues and I have noticed that there is a lack of support for Amiga users under the age of 18 and have therefore decided to set up a user group. It seems that people in the Amiga world think that if you are under 18 you only use your machine for playing games.

The group is aimed at, and called, the Under 18 User Group. We produce a newsletter and have a growing PD library with disks available free. We can offer general advice and help on subjects such as programming.

Membership costs £2 – we were reluctant to charge but it is the only way we can fund the features we offer. I stress that we are a non profit-making club which aims to help our members. To contact the Under 18 User Group, write to:

Joe Locker, Under 18 User Group, 65 Masterton Road, Stamford, Lincs PE9 1SN

CANVASSING FOR A REPLY

I have read that PC CD-ROMs and the CD³² variety are formatted to the ISO-9660 standard. Can you tell me if a PC CD, in particular, Microsoft's National Art Gallery in their Home Range, would be in any way compatible with CD³²?

I've asked Microsoft but they don't know. Obviously compatibility

Continued overleaf

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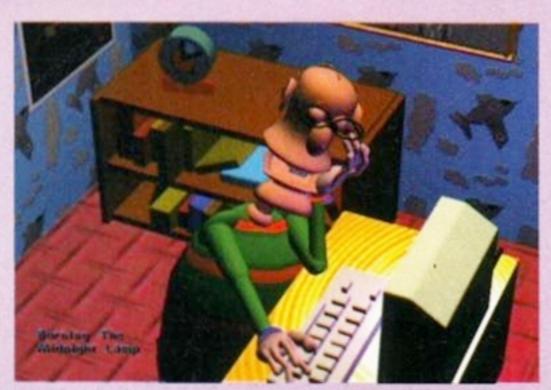
Got a picture you're proud of? Send it in, see it in print and win an Amiga Format binder! Since the letters section is where you get to contribute your words, we thought it would be the perfect place to see your pictures on display too.

The best image each month, the one on

this page, will win a huge poster printout, courtesy of Max Graphics of Cardiff – worth a massive £80. Send your entries on a floppy disk to The Gallery, Amiga Format, 30 Monmouth Street, Bath BA1 2BW.

If you need your artwork printed out, give Max Graphics a call on 0222 522332, or write to them at 168 North Rd, Cardiff, CF4 3BJ.

They offer a full range of Amiga output services, including their Colossal Colour system which can print images right up to poster size.



Midnight Oil by Chris Banks of Grimsby

m

THE BITS ON THE SIDE...

I have had my Amiga for a little over six months and have bought only seven Amiga-related magazines. I'm going to tear up the next one which tells me how to get the GB map working; how to copy disks or how to turn on my oven. I just ain't payin' £4 for what's in the Amiga manual.

The one thing that prompts me to buy a mag is the Coverdisk. Make yourselves some extra money – reduce the mag to adverts and give it away with your Coverdisks.

Make your mag real; make me want to buy it.

Mark Tevendale, Kettering, Northants

OK, so you want better Coverdisks – and a magazine with a high reality quotient. I don't suppose you could be a little more specific?

I agree with putting age ratings on computer software. However, I disagree with the banning of scenes of sexual intercourse; violence; blood and guts; and the use of expletives in games. Doing so deprives the discerning adult software buyer of freedom of choice.

Why should people be prevented from seeing what they want on computer games because of the hang-ups of some crusty old, narrow-minded censor? Wouldn't it be better to put a clear warning on the box so that anyone who might be offended won't buy that particular piece of software? Or so that you couldn't buy Swedish Nymphos Who Use The Eff Word for your granny thinking it was a cartoony platformer?

Michael Norton, Guisborough, Cleveland

There's a world of difference between printing a warning label on a box and actually omitting gratuitous scenes of sex and violence. Let's face it, any kid with an older brother can get hold of horrific or pornographic videos – and 'games' with their interactive element have a far greater potential to disturb (anyone who's played something like Hired Guns can vouch for that).

So what do you do? Ratings don't stop people from getting hold of it; clamping down just sends the hard stuff 'underground' and makes it all the more appealing. As computer games approach broadcast quality, the regulation of computer games is going to become an increasingly contentious topic.

I have just read Issue 58 of your excellent magazine. What a bunch of nerds, dweeks, and, my word, nonks we Amiga buffs must be, judging by the discreet (Not!) messages of subversion in the small ads.

P180: Massive muscles in eight weeks. (We're puny.)
P182: How to get by on £1,000 a day. (We're poor!)
P171: How to make it with girls. (We're inadequate.)

How can such an amazing magazine allow such appalling ads to slide beneath its hallowed sheets? It wouldn't be so bad if they were for real – I mean they didn't work for me!

Howard Hughes (XJ220-driving, Arnie lookalike, with access to more skirt than I can handle), Wales

Every day you're subjected to TV ads that assume you're stupid, dirty, have bad skin, smell, have no dress sense, are very old, unable to manage your own finances or even of the opposite sex. And no-one complains...

I think your mag is great and I should know because I've been buying computer titles for around 12 years ever since I bought my ZX81. Can you tell me if I will be able to use my A600 as a keyboard and external drive for a CD³²? Also, will a CD³² with an FMV card included be released in the near future, at a lower price than both cost now?

M Pearson, Lye nr Stourbridge

No, I'm afraid you can't use your A600 as a slave keyboard/drive for the CD³². If you think about it, there's no way of reading the keyboard – without doing some heavy-duty rewiring. And as regards a CD³²/FMV bundle, Commodore haven't announced anything... yet.



from a PC to an Amiga isn't as much of a problem as compatibility the other way around.

Kevin Howes, London

Most CD-ROMS are produced to a standard, such as the one you mention. It is correct that Amiga CD drives can read the data from a PC CD-ROM, but it can't actually do anything with it – unless your machine is running a PC emulator, of course. It's not the disk that's different; but the programs contained therein.

REAL GRIPES BROADCAST

I have recently bought a CD³² and have some comments that may be of interest to other readers of your fine publication.

I assume that Commodore decided from the outset that the CD³² was going to be a games console first and foremost. This would explain why they neglected to fit it with full RGB output.

But there must be some people who, like me, own a monitor and have become accustomed to the luxury of an RGB display from their Amigas. Does the Microbotics SX1 module that supposedly allows you to transform a CD³² into a fully fledged A1200 support an RGB output?

Finally, can someone please explain why the CD³² plays my music CDs better than my three-year-old

'audiophile' CD player does? It has a more detailed sound, avoids the harshness that plagues many a CD player both old and new and is able to keep all of this information under control so that you are able to place any instrument easily within the soundstage.

The only downside is the slightly increased background noise at very high volume levels and the mechanical noise from the mechanism itself. Could it be that technology has improved so considerably in three years?

I wonder how the CD³² would compare with a new machine in a similar price range today? Lastly, what is the technical specification of the CD³²?

Steve Ward, Norwich, Norfolk

Good news: Microbotics' SX1 (now being produced by ParaVision) will indeed have an RGB output for connection to a monitor. And, as well as the normal array of parallel and serial ports, it also boasts a built-in real-time clock, a 72-pin 32-bit SIMM socket, and an an internal 2.5-inch IDE hard drive interface with space for an internal drive.

The CD³² has a surprisingly good disc mechanism, (manufactured by either Sony or NEC) and supports full 16-bit 8x oversampling, which makes it a pretty hispec audio CD player. And, let's face it, three years is a long time in the electronics



Headscape by Peter Galea-Naudi of Hove



Sanijan by Ian Grieve of Trowbridge



TV And Video by Billy Kastansis of Rhodes, Greece

business. You notice an increase in noise from the mechanism itself because the plastic casing does very little to dampen the noise from the drive.

The Technical specification for CD^{32} is: CD Drive: 300K/sec.

CPU: 32-bit 68EC020 @ 14MHz.

Memory: 2Mb.

Operating system: Kickstart 3.1 on ROM. Graphics: AGA chipset, Akiko chunky-tobitplane graphics conversion chip.

Colour: Up to 262,144 colours on screen. Screen resolution: 320x256 to 1,280x512 Sound: Stereo four channel, 8-bit.

Audio: 16-bit, 8x oversampling. FMV: MPEG1 option based on the C-Cube chip.

OVERPRICED AND OVER HERE

How can I get hold of a copy of the Amiga Format Coverdisk that had Imagine 2.0 on it? The program costs a fortune in Sweden.

Christer Hansson, Sweden



Get an Imagine Coverdisk by ordering a back issue. But hurry, they're selling fast.

Simplicity itself: merely flip nonchalantly over to page 148, where you'll find our elegantly-designed back issues offer. Merely fill in the requisite form, stating that you wish to purchase Issue 53, and enclose payment to the order of £5.

AND... OVER THERE **AND OVER ANXIOUS**

I live in America and I would like to thank all of the European consumers for helping to keep Commodore and the Amiga on its feet. Hopefully this will continue.

Since I owe so much to Commodore and the Amiga I cannot just sit idle while I watch the company distance itself from the US Just because market. management team in the US doesn't know how to market its product, there is no reason why I, and the other thousands of State-side Amiga users cannot write and bring about a change in the way Commodore Business Machines are doing things.

I know that CBM is a large corporation but I don't think that anything in the world is stronger than the American will to get things done - if we want something to happen, we make it happen.

I am setting up a group of Amiga owners, worldwide, who are unhappy with the way CBM has done things over the past few years.

Andre Reavis 14126 Cordary no. 43 Hawthorne, CA 90250 USA

Tel: (0101) 310 978 9415

NOT TO BE CONSOLED

I have a couple of ideas I would like to see taken up in Amiga Format.

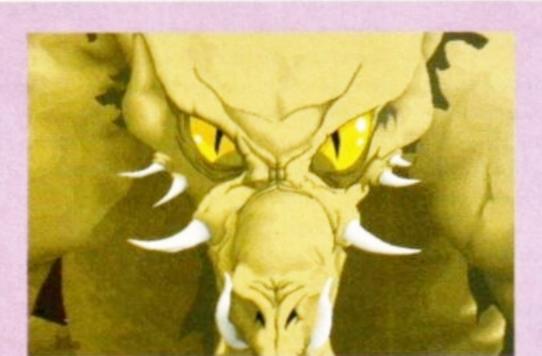
- 1) Why not print readers' scores (with a photo to prove it, of course) as a challenge to others in the games tips section?
- 2) Why is it that everyone on TV calls computers 'consoles', particularly if they are talking about epileptic fits? It winds me up.
- 3) Please could you include the number of disks a game takes in your reviews because it is helpful to know the size. Please can we also have more hard disk installable games.
- 4) Is there a PD program that changes JPEG images into IFF format? I have lots of JPEG images but can't print them out with Workbench 3.0 version 39.29.

Caley Cane, Ashford, Kent

And, in reverse order...

- 4) Yes it's called Fast JPEG and was given away on last month's Subscibers" Superdisk. So I guess you're one of the dim readers that doesn't subscribe, then...
- 3) Your wish is granted: as of this issue, Rob Mead and crew will now tell you how many disks a game comes on and if it is hard disk installable.
- 2) Primarily because those people who suffered fits were playing console games at the time. It's difficult to imagine a fit of epilepsy being induced by a prolonged bout of Music-X or Wordworth 3...

Continued overleaf



The Old One by Rodney Entwhistle of Whangarei, NZ



THE MAN AT THE TOP

As well as running Commodore UK, David Pleasance also wishes to keep you Amiga owners informed about what's going on. Send your questions to him at the usual Amiga Format address, and await the answers in this very column...





HAVE WE LOST OUR VOICE?

Why have Commodore dropped the Speak.handler from Workbench? Does this mean the Amiga isn't able to produce speech any longer, without the user having programming knowledge? Also, why haven't they fitted a trapdoor-type lid to the internal drive?.

S S Bassi, Derby, Derbyshire

Yes, the demo facility for speech has been dropped, since the launch of the Amiga 3000 in fact. In the early days of the Amiga this feature was considered state of the art, but now digital quality is the minimum acceptable standard for voice, and as such the speech facility is inadequate. I believe that there is a Public Domain program available which allows speech as per our original demo.

Those internal drives with a trapdoor (which really is just a dust limiter) are the type used on A4000s and the soon-to-be-released A4000T. This is because the trapdoor itself is part of the bezel, which forms an integral part of the look of the case. With the A500, A600 and A1200, the drive is recessed behind the outer casing and there is no room for the trapdoor device. The inclusion of said trapdoor will have a negligible effect on prolonging the life of the hardware.

IS THE BUSTER BUST?

I own an A4000/30 and I have heard that the buster chip is faulty. I have version nine and believe I need version 11. Is this true?

Michael O'Connor, Marino, Dublin, Ireland

Your buster chip is not faulty. But if you wish to fit a SCSI controller (in order to connect a SCSI hard drive device), you need to have the revision 11 chip fitted. These are readily available, but must be fitted by a qualified engineer, so I recommend you go back to your dealer.

FAULTY MOTION VIDEO

I am the proud owner of a CD32 and an FMV unit. Both the Star Trek VI and Top Gun video CDs tend to skip a frame every now and then. I am aware that these Philips CDs do not quite follow the White Book standard for video CD, is this the cause of the problem? If so, will standard video CDs play OK? I know there was a problem with the original MPEG cartridge and that they have been updated, but are the original problem ones still on sale?

Adam Wright, Northampton

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Faith

The short answer is Yes. The non-conformity of the software has resulted in a few problems. We have produced several revisions of our ROM in the FMV module, and I believe that the latest version 40.30 has cured all the problems. This is the only version that should be on sale today. If you take your FMV module back to your retailer, they will get the ROM replaced with the latest version. There is a small charge for post and packaging (£5), payable to the dealer when you request the upgrade. I hope this solves your problem and I wish you many happy hours of enjoyment on your CD32.

How to contact

ANIGA FORMAT

The best way to get an answer from Amiga Format is to make sure you're addressing your letter to the right person (or indeed, department) in the first place...

- We get literally hundreds of letters and faxes a day, so if we were to try to answer them all personally we would never have any time to actually write Amiga Format. So we're sorry, but we can't reply in person.
- We are available for emergency enquiries by telephone every Tuesday between 10.30am and 6pm, but please make sure your call is really necessary.
- Our advertising department can help with problems concerning companies who advertise in the magazine if you phone during normal office hours.
- Our subscriptions service and the Amiga Format Mail Order department are not in the same building as the magazine itself. Both can be contacted on 0225 822511.

Work BENCH



If you have any problems with the technical side of your Amiga, with hardware or with serious software, Nick Veitch will try to answer you in the mag. Or, if you have any advice for others or any handy tips to share, send them in and you could win a prize.

WORKBENCH, AMIGA FORMAT, 30 MONMOUTH STREET, BATH BA1 2BW.

Game BUSTERS



If you've just found the cheat mode, mapped out the levels, or found all the passwords for the latest game, send the info to Rob Mead and you could win a prize. Or, if you're stuck, ask Helping Hand for advice – or solve someone else's problem and win a prize!

ROB MEAD, GAMEBUSTERS, AMIGA FORMAT, 30 MONMOUTH STREET, BATH BA1 2BW.

Readers' LETTERS



The Letters pages are there for you to air your views and share your opinions; please remember not to ask questions that should be in Workbench! Steve is looking for thought-provoking or entertaining letters, the shorter the better. Prizes are given for the best.

LETTERS TO THE EDITOR, AMIGA FORMAT, 30 MONMOUTH STREET, BATH BA1 2BW.

COMPETITIONS



To enter a competition, write the answers and your name, address and phone number on the back of a postcard or a stuck-down envelope and send it in. We have just changed our rules so that each person may enter only once: and, please, do not include entries with letters to any other part of the mag because we'll just lose them.

WHATEVER COMPETITION, AMIGA FORMAT, 29 MONMOUTH STREET, BATH BA1 2DL.

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Faulty COVERDISKS



The disks are duplicated and stuck on the magazine by a separate firm which we employ. If you have a faulty disk, DON'T return it to us: send it, enclosing an SAE, to: DISCOPY LABS, UNITS 2 & 3, OMEGA TECHNICAL CENTRE, DRAYTON FIELDS, DAVENTRY, NORTHANTS NN11 5RT.

1) I've worked on numerous mags which 'featured' high score tables and always found them to be: dull (a list of scores? Whoopee); annoying (just how do these people rack up these inhumanly high scores anyway?); and a waste of space. Opinions, please.

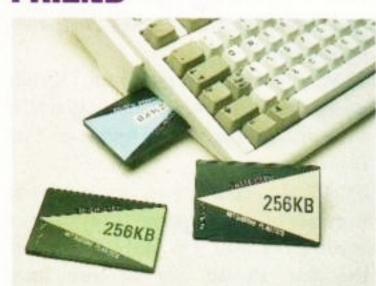
CHECKING IT OUT

Please can you tell me where I can get a copy of the supplement disk and manual which contains the spellchecker and thesaurus for *Scribble* on Coverdisk 41.

Darrell Golby, River Dale, Foul Anchor, Tydd nr Wisbech, Cambs PE13 5RF

Bad news, I'm afraid. The company responsible for these items has gone down the tubes, and is no more. However, if some generous AF reader has got the aforementioned items perhaps they could get in touch with Darrell?

YOUR (IN)FLEXIBLE FRIEND



If you're worried about your PCMCIA card snapping, then listen to Gob the Great.

Here's a tip for Amiga users who own a PCMCIA card. To prevent the card bending and possibly snapping, glue an eraser to the underside to act as a shock absorption unit effectively taking the strain off the card.

Gob the Great, Newcastle

HELPING TO WRITE WRONGS

I have been buying Amiga Format for years and am now a subscriber. The Coverdisks on issue 51 were Skidmarks and Turbo Print. I ordered a PD disk from a company I will not name. I ordered Skidmarks because

I thought it would be extras (tracks and cars and things) to my original program, but when it arrived the disk was a copy of your Coverdisk complete with *Turbo Print*. OK it only cost £3 but I did not want to pay for something I already had.

Are that company allowed to do this? I thought the disk was not for resale. What about copyright? This must have happened to other readers as well. Perhaps they could write in and tell you.

Jim Northcott, Swansea, Wales

You're right: PD companies certainly aren't allowed to rip off AF Coverdisks. By doing so they're contravening the copyrights of both Amiga Format and

the company to whom the software belongs. The disks aren't for resale, and so selling them - however cheaply - is illegal.

Any other AF readers who know of PD companies flogging Coverdisk programs should pass on the details (anonymously if need be) to Amiga Format who will then take the appropriate – and painful – action.

SO UNFUNNY IT'S A JOKE

First off, I sent off for some PD from 17 Bit Software and was pleased with their fast and efficient service. Unfortunately some of the disks, including a Spectrum Emulator, were faulty but when I sent them back I received a replacement together with an extra games disk free. So I wouldn't hesitate to recommend 17 Bit.

Secondly, I was playing games with the Speccy Emulator and they reminded me of the good old days when gameplay and longevity were an integral part of the games. If bedroom programmers could squeeze tonnes of gameplay into 3.5K with a VIC20, there's no excuse for not doing the same with the 585 times more K on the CD³².

Thirdly, two complaints: your magazine is the best on the market but you have demoed only three games on your Coverdisks that have persuaded me to buy the game, and one of those I had decided to buy before I got your Coverdisk version. I know that you don't write the games but if there are no decent games demos winging their way to you one month couldn't you put some decent PD on the disks?

Lastly, Amiga Format is very unfunny. Please make it a bit funnier or I might have to set up a rival on my Citizen 120d+ using Pagesetter.

Grant Osborne, Hardwick, Cambs
PS Do you still give away prizes for
letters as you don't seem to mention
this any more?

PPS Ages ago (Issue 30?) Pat McDonald said anyone wanting to see a program you could talk to, on the Coverdisk, should write in... I want one. I think it was called *Nialle* or something.

You're not the only one lamenting the drop in gameplay standards: I've been bemoaning the state of new software for months. But it's not necessarily poor gameplay – there have been some stonking Amiga games over the last year – it's more the lack of originality. If I see another 'jolly' platform game, Football sim or Street Fighter II clone, I'll puke.

AF unfunny? A horse walks into a bar; the barman says 'Why the long face?'

It's a cracker.

PS To appear in the annals of Amiga Format is prize enough.

PPS Message received.



PERIPHERALS



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FEATURED

The new GVP A1230-II, available in 40MHz 68030EC and 50MHz 68030 configurations, are the most advanced accelerators yet for the A1200. They can make your Amiga run 6½ times (40MHz version) or 8½ times (50MHz version) faster than the standard A1200 and feature unique module expandability

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UNIQUE MODULE EXPANDABILITY The A1230-II is unique in that you can add further functionality to your Amiga by using expansion modules. GVP will be releasing a wide range of optional modules, the first being a high speed SCSI-2 interface. A 16-bit sound sampler and real time frame grabber will follow shortly. All modules can be fitted without invalidating the

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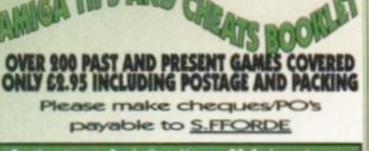
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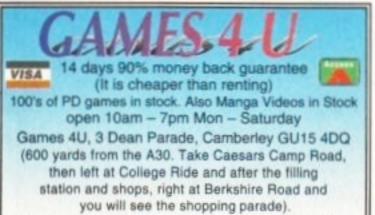
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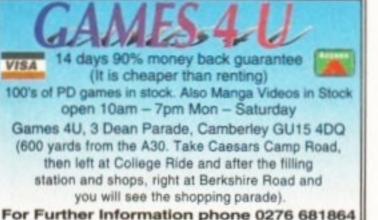
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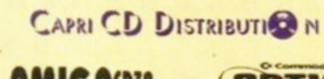
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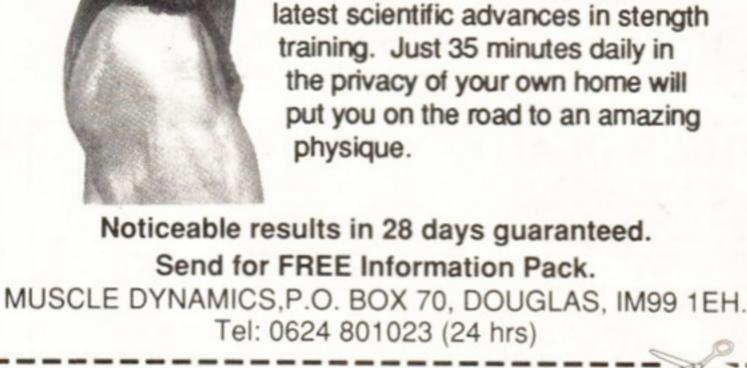


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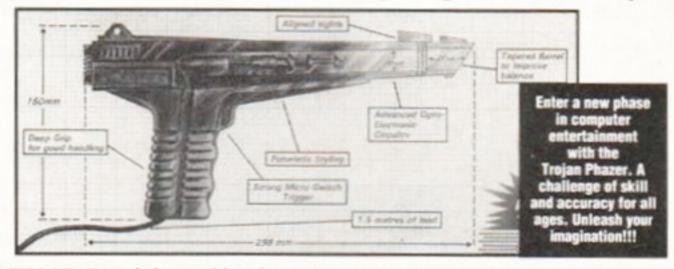
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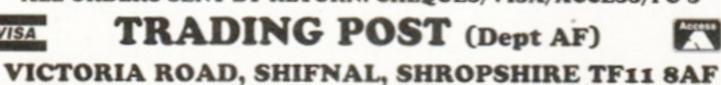
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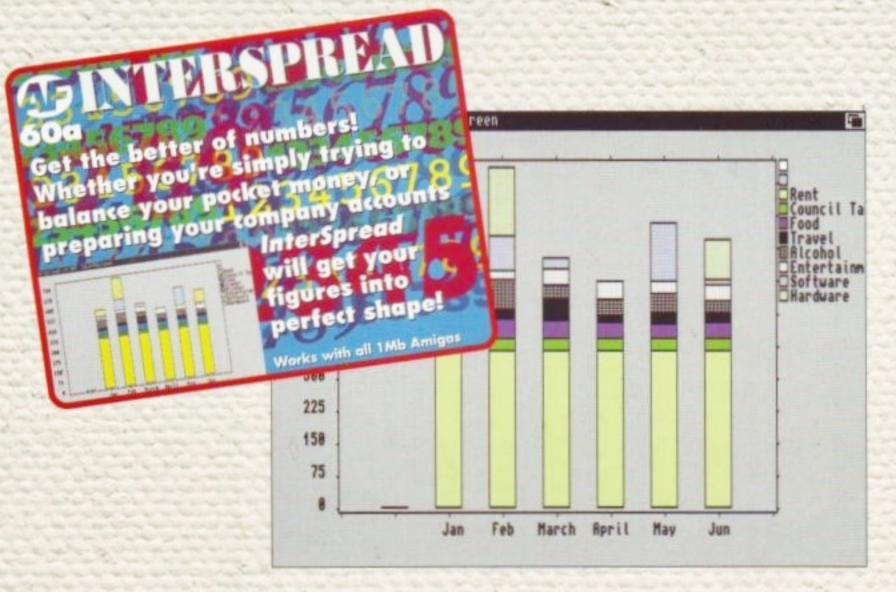




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